

REPORTS, RETURNS AND STATISTICS
OF THE
INLAND REVENUES
OF THE
DOMINION OF CANADA

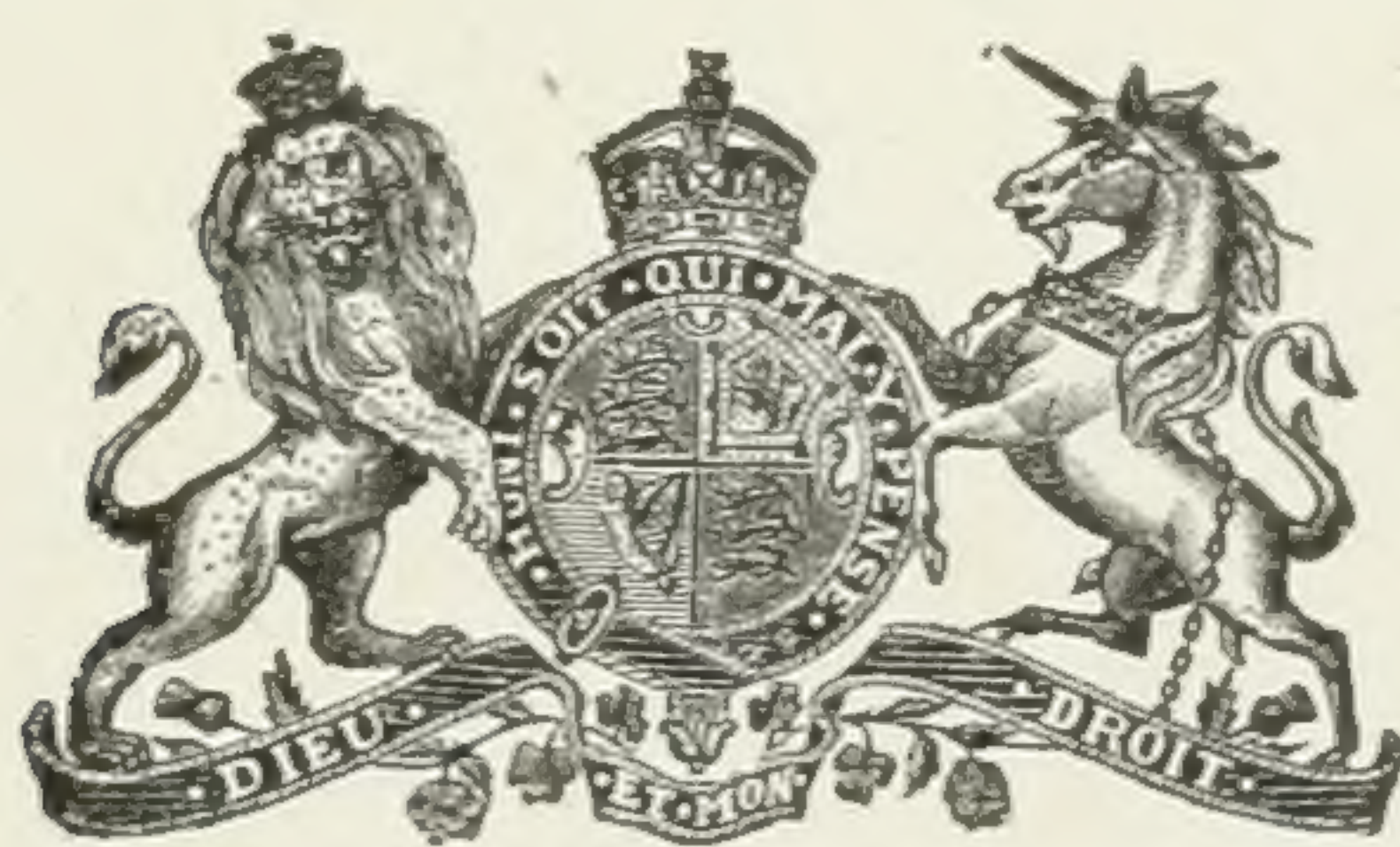
FOR THE FISCAL YEAR ENDED MARCH 31

1911

PART III

ADULTERATION OF FOOD

PRINTED BY ORDER OF PARLIAMENT



OTTAWA

PRINTED BY C. H. PARMELEE, PRINTER TO THE KING'S MOST
EXCELLENT MAJESTY

1912

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REPORT
OF THE
DEPUTY MINISTER OF INLAND REVENUE.

INSPECTION OF FOODS, DRUGS AND FERTILIZERS.

To the Hon. WM. TEMPLEMAN,
Minister of Inland Revenue.

SIR,—I have the honour to submit herewith a statement showing the work done by the Chief Analyst and staff at Ottawa, for the year ending March 31, 1911.

Description.	Genuine.	Doubtful.	Adulterated	Sold as Compound.	Total.
Flour	223	0	0	0	223
Beef Iron and Wine.....	76	0	0	0	76
Cond. and Evap. Milk	154	0	0	0	154
Sp. Menth. Pip.....	71	0	0	0	71
Lin. Chloroformi	17	0	55	0	72
Turpentine.....	29	56	0	0	85
Packaged Fruit	438	0	0	0	438
Fertilizers	150	11	0	0	161
Maple Syrup.....	117	4	17	0	138
Maple Sugar.....	102	14	22	0	138
Ground Coffee	260	0	26	11	297
Strained Honey	122	20	3	3	148
Ice Cream.	83	37	0	0	125
Butter..	195	14	2	0	211
Salt.	215	58	0	0	273
Eff. Phosp. Soda.....	134	0	0	0	134
Cream Tartar.....	238	26	25	0	339
Vinegar.....					84
Catsup.....					75
Total.....	2679	240	150	14	3242

In my report for last fiscal year I pointed out the fact that the Advisory Board had prepared standards for certain food products and the following have now been legalized, viz :—

- Milk and its products.
- Grain products.
- Meat and meat products.
- Beverages.
- Maple sugar and maple syrup.

With these standards established prosecution against persons dealing in, or placing on the market, adulterated goods will be more readily carried on and proper punishment secured.

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The Chief Analyst in his report attached hereto refers to the destruction of the laboratory building in January last, but I am pleased to state that at the present time the building has been reconstructed and the laboratory again established in an even better condition than it was prior to the fire.

The provisions of the Commercial Feeding Stuffs Act, and the Fertilizers Act have, it is believed, worked out to the benefit of the farming community as the products put upon the market under both of these Acts have to be up to the manufacturer's guarantee and the users thereof are in a position to judge of the value of the goods turned out by the respective manufacturers.

I have the honour to be, sir,

Your obedient servant,

W. J. GERALD,

Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, Sept. 15, 1911.

REPORT OF THE CHIEF ANALYST.

OTTAWA, Aug 18, 1911.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR,—I beg to report as follows upon the work of this laboratory, for the fiscal year ending March 31, 1911.

During this period 3,753 samples were collected by our inspectors; but only 3,371 are recorded in this report, owing to the fire of the 4th January which destroyed part of the samples collected on November 22 last. Of these a good number were analysed; but results obtained have also been destroyed.

The results of analysis available are detailed in Bulletins 206 to 224, both inclusive, as follows:—

Number of Bulletin.	Subject.	Number of Samples.
206	Flour	223
207	Beef Iron and Wine	76
208	Condensed and Evaporated Milk	154
209	Sp. Menthae Pip.,	71
210	Lin. Chloroformi	72
211	Oil of Turpentine	85
212	Packaged Fruit	438
213	Fertilizers	161
214	Maple Syrup	138
215	Maple Sugar	138
216	Ground Coffee	297
217	Strained Honey	148
218	Ice Cream	125
219	Butter.	211
220	Table Salt	273
221	Eff. Phosphate of Soda	134
222	Cream of Tartar	339
223	Vinegar	84
224	Catsup	75
	Total	3242

In addition to the above there have been performed the following occasional analyses, during the year:—

Acetic Acid Crude	20
Alcohol	8
Ambrecht's Coca Wine	1
Baking Powder	2
Beer	32
Beet Sugar Syrup	1
Borax	1
Bread	1

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Cheese.....	3
Coal.....	1
Coca-Cols.....	4
Coderre's Infants Syrup.....	2
Coffee.....	1
Cream.....	1
Dog's stomach—(for poisons).....	1
Eggs frozen.....	2
Fertilizers.....	20
Flaxseed.....	1
Flour.....	14
Fusel Oil.....	5
Granulated Sugar.....	1
Hemlock Extract.....	1
Ink.....	1
Lead Arsenate.....	1
Lemon Extract.....	2
Liniment.....	1
Malt Extract.....	1
Maple Sugar.....	2
Maple Syrup.....	4
Mash.....	1
Milk.....	2
Natural Gas.....	1
Neat's Foot Oil;.....	1
Olive Oil.....	1
Paris Green.....	1
Pepper.....	3
Rum.....	1
Skin.....	1
Stock Feed.....	3
Tobacco.....	1
Tarpendine..	3
Vinegar.....	10
Vinegar (Excise).....	333
Water.....	6
Whiskey.....	1

504

The total number of analyses made is therefore 3,746. The following solutions have been prepared and supplied for the use of Excise Officers, in vinegar testing:—

Normal Soda Solution.....	92 winchesters.
Standard Phenolphthalein.....	17 bottles.
Standard Sulphuric Acid.....	2 “

The work of defining Foods, under Section 26 of the Adulteration Act has made satisfactory progress, and the following are now in force:—

	Published.	In force.
Meat and Meat products (G. 931)..	Oct. 24, 1910	Nov. 22, 1910
Grain and Grain products (G. 932).	Nov. 7, 1910	Dec. 5, 1910
Amendment (G. 968).....	May 3, 1911	June 7, 1911
Milk and milk products (G. 934).	Nov. 14, 1910	Dec. 12, 1910
Beverages (G. 947).....	Feb. 1911	Mar. 13, 1911
Maple Sugar and Syrup (G. 961) ..	Mar. 22, 1911	Apr. 25, 1911

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The Standards referred to are published in this report. Substantial progress has been made with other standards ; and it is to be hoped that further recommendations for definition will be made by your Advisory Board during the present year.

The staff of this laboratory has been strengthened by the addition to it of Mr. Victor Kitto, B.A., Toronto. His appointment dates from April 1, 1910.

The routine work of these laboratories has been greatly interfered with during the past year through many causes, the chief of which may be mentioned here.

1. The destruction of the laboratory building and a large part of its contents by fire on the 4th of January. The fire originated in the Methylating Warehouse below, and was of so sudden and violent character that it was found impossible to effect any saving of valuable apparatus or records. Members of the staff escaped with difficulty, and several of them met with considerable personal losses in clothing and effects. Fortunately the rear annex, which was just approaching completion, escaped total destruction ; and was made available for use in the course of a few weeks. At this date (August) the laboratories have been rebuilt and are in working order.

2. A considerable portion of the time of one of my assistants (Mr. Lemoine) has been given to the work of the Patent and Proprietary Medicines Act, in connection with the claims of manufacturers for registration under that Act. To this extent Mr. Lemoine's services as analyst have been curtailed.

3. Mr. A. C. Macfarlane, another of my assistants, was stricken with paralysis in February, 1910, and died in November of that year.

4. Miss Edith Davidson, another assistant analyst, suffered during the year from nervous debility, and sent in her resignation in April of this year. Her attendance at the laboratory was necessarily irregular for some considerable time before that date.

During the interval in which the laboratory was rebuilding, after the fire of January, the services of Mr. A. Valin, bacteriologist, were granted to the City Health Office, on sanction of the Hon. the Minister, namely, from February 4 to April 4. Mr. Valin had much to do with the installation of a chlorinating treatment of the city water supply, made necessary by the discovery of marked sewage pollution ; and his services, in this regard, have been gratefully acknowledged by the City Council.

The details of analytical work done during the year are contained in the nineteen bulletins (Nos. 206 to 224) accompanying this report ; to which are also added the definitions of standards which have been issued during the year.

I have the honour to be, sir,
Your obedient servant,

A. MCGILL,
Chief Analyst.

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DEPARTMENT OF INLAND REVENUE,

OTTAWA, October 24, 1910.

MEMORANDUM.

Under the authority of an Order of His Excellency in Council bearing date the 14th instant, and in virtue of the provisions of the twenty-sixth section of the 'Adulteration Act,' the following standards of quality have been established for 'Meats and the principal Meat Products':—

A.—MEATS.

1. Meat, flesh, is any clean, sound dressed and properly prepared edible part of animals in good health at the time of slaughter, and if it bears a name descriptive of its kind, composition, or origin, it corresponds thereto. The term 'animals' as herein used, includes not only mammals, but fish, fowls, crustaceans, mollusks, and all other animals used as food.

2. Fresh meat is meat from animals recently slaughtered and properly cooled until delivered to the consumer.

3. Cold storage meat is meat from animals recently slaughtered and preserved by refrigeration until delivered to the consumer.

4. Salted, pickled, and smoked meats are unmixed meats preserved by salt, sugar, vinegar, spices, or other harmless substances, or smoke, singly or in combination, whether in bulk or in suitable containers.

NOTE.—Suitable containers for keeping moist food products such as syrups, honey, condensed milk, soups, meat extracts, meats, manufactured meats and undried fruits and vegetables, and wrappers in contact with food products, contain on their surfaces, in contact with the food product, no lead, antimony, arsenic, zinc or copper or any compounds thereof or any other poisonous or injurious substances. If the containers are made of tin plate, they are outside soldered, or if soldered inside, the solder used shall consist of pure tin only; and the plate in no place contains less than one hundred and thirteen (113) milligrams of tin on a piece five (5) centimeters square or one and eight-tenths (1·8) grains on a piece two (2) inches square.

This is equivalent to two (2) pounds of tin per base box; but it must be noted that the regulation requires not only a minimum weight of tin per base box, but that this tin shall be evenly distributed over the surfaces of the plate.

The inner coating of the containers is free from pin holes, blisters and cracks.

If the tin plate is lacquered, the lacquer completely covers the tinned surface within the container and yields to the contents of the container no lead, antimony, arsenic, zinc, or copper or any compounds thereof, or any other poisonous or injurious substance.

5. Oysters.—Water must not be added directly either as such, or in the form of ice, to shucked oysters.

B.—MANUFACTURED MEATS.

1. Manufactured meats are meats not included in paragraphs 2, 3 and 4, of Section A, whether simple or mixed, whole or comminuted, in bulk or in suitable containers, with or without the addition of salt, sugar, vinegar, spices, or other harmless substances, smoke, oils, or rendered fat. If they bear names descriptive of kind, composition, or origin, they correspond thereto, and when bearing such descriptive names, if force or flavouring meats are used the kind and quantity thereof are made known.

2. Sausage, sausage meat, is a comminuted meat from swine or neat cattle, or a mixture of such meats, either fresh, salted, pickled or smoked with added salt and spices and with or without the addition of edible animal fats, cereals, blood and sugar, or subsequent smoking. It contains no larger amount of water than the meats from which it is prepared contain when in their fresh condition, and not more than ten (10) per cent of its weight of cereals; and if it bears a name descriptive of kind, composition or origin, it corresponds to such descriptive name. All animal tissues used as containers, such as casings, stomachs, &c., are clean and sound and impart to the contents no other substance than salt.

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3. Blood sausage is sausage to which has been added clean fresh blood from neat cattle or swine in good health at the time of slaughter.

4. Canned meat is the cooked meat of fowls, neat cattle or swine, preserved in hermetically sealed packages, and fulfils the conditions defined by the Meat and Canned Foods Act of 1907.

5. Corned or cured meat is meat cured or pickled with dry salt or in brine, with or without the addition of sugar or other harmless substances.

6. Potted meat is comminuted and cooked meat from those parts of the animal ordinarily used for food in the fresh state, with or without salt and spices, and enclosed in suitable containers hermetically sealed.

Cereals, when present, must not exceed ten (10) per cent by weight, unless declared.

7. Meat loaf is a mixture of comminuted cooked meat, with or without spices, cereals, milk and eggs, and pressed into a loaf. If it bears a descriptive name, it corresponds thereto.

8. Mince, mince meat is a mixture of chopped suet, apple and other fruit, salt and spices, with sugar, syrup or molasses, and with or without vinegar, fresh, concentrated, or fermented fruit juices, or spirituous liquors, or cooked, comminuted meat.

C.—MEAT EXTRACTS, MEAT PEPTONES, GELATIN, &C.

1. Meat extract is the product obtained by extracting fresh meat with water and concentrating the liquid portion by evaporation after the removal of fat, and contains not less than seventy-five (75) per cent of total solids of which not over twenty-seven (27) per cent is ash, and not over twelve (12) per cent is sodium chloride (calculated from the total chlorine present), not over six-tenths (0.6 per cent is fat and not less than eight (8) per cent is nitrogen. The nitrogenous compounds contain not less than forty (40) per cent of meat bases and not less than ten (10) per cent of kreatin and kreatinin.

2. Fluid meat extract is identical with meat extract except that it is concentrated to a lower degree and contains not more than seventy-five (75) and not less than fifty (50) per cent of total solids.

3. Bone extract or stock is the product obtained by extracting clean, fresh, trimmed bones, of animals in good health at the time of slaughter, with boiling water and concentrating the liquid portion by evaporation, after removal of the fat, and contains not less than seventy-five (75) per cent of total solids.

4. Fluid bone extract is identical with bone extract except that it is concentrated to a lower degree and contains not more than seventy-five (75) and not less than fifty (50) per cent of total solids.

5. Meat juice is the fluid portion of muscle fibre, obtained by pressure or otherwise, and may be concentrated by evaporation at a temperature below the coagulating point of the soluble proteids. The solids contain not more than fifteen (15) per cent of ash, not more than two and five-tenths (2.5) per cent of sodium chloride (calculated from the total chlorine present,) not more than four (4) nor less than two (2) per cent of phosphoric acid (P_2O_5), and not less than twelve (12) per cent of nitrogen. The nitrogenous bodies contain not less than thirty-five (35) per cent of coagulable proteids and not more than forty (40) per cent of meat bases.

6. Peptones are products prepared by the digestion of proteid material by means of enzymes or otherwise, and contain not less than ninety (90) per cent of proteoses and peptones.

7. Gelatin (edible gelatin) is the purified, dried, inodorous product of the hydrolysis, by treatment with boiling water, of certain tissues, as skin, ligaments and bones, from sound animals, and contains not more than two (2) per cent of ash and not less than fifteen (15) per cent of nitrogen.

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D.—LARD.

1. Lard is the rendered fresh fat from hogs in good health at the time of slaughter, is clean, free from rancidity, and contains, necessarily incorporated in the process of rendering, not more than one (1) per cent of substances other than fatty acids and fat.

2. Leaf Lard is lard rendered at moderately high temperatures from the internal fat of the abdomen of the hog, excluding that adherent to the intestines, and has an iodine number not greater than sixty-five (65) and contains not more than one (1) per cent of substances other than fatty acids and fat.

3. Compound Lard: Lard Compound, &c, is a mixture of animal and vegetable fats and oil. It must be free from rancidity, be made from sound and pure materials, and contain not more than one (1) per cent of substances other than fatty acids and fat.

The standards above defined take effect on the 22nd day of November prox.

W. J. GERALD,
Deputy Minister.

DEPARTMENT OF INLAND REVENUE,
OTTAWA, November 7, 1910.

MEMORANDUM.

Under the authority of an Order of His Excellency in Council bearing date 29 October ultimo, and in virtue of the provisions of the twenty-sixth section of the 'Adulteration Act,' the following standards of quality have been established for 'Grain Products.'

GRAIN PRODUCTS.

1. Grain is the fully matured, clean, sound, air-dry seed of wheat, maize, rice, oats, rye, buckwheat, barley, sorghum, millet or spelt.

2. Meal is the clean, sound product made by grinding grain.

3. Flour is the fine, clean sound product made by bolting wheat meal, and contains not more than thirteen and one-half (13.5) per cent of moisture, not less than one and twenty-five one hundredths (1.25) per cent of organic nitrogen, not more than two (2) parts per million of nitrite reacting nitrogen, not more than one (1) per cent of ash, and not more than fifty one-hundredths (0.50) per cent of fibre.

4. Bleached Flour is flour which has undergone processing for the purpose of making it lighter in colour. The residual nitrite reacting nitrogen must not exceed five (5) parts per million. The presence of two (2) parts per million of nitrite reacting nitrogen in flour shall be held to be proof of its having been bleached by oxides of nitrogen.

5. Graham Flour is unbolted wheat meal.

6. Gluten Flour is the clean, sound product made from flour by the removal of starch, and contains not less than five and six-tenths (5.6) per cent of nitrogen, not more than ten (10) per cent of moisture, and not more than fifty (50) per cent of starch.

7. Maize Meal, Corn Meal, Indian Meal, is meal made from sound maize grain, and contains not more than fourteen (14) per cent of moisture, not less than one and twelve one hundredths (1.12) per cent of nitrogen, and not more than one and six-tenths (1.6) per cent of ash.

8. Rice is the hulled, or hulled and polished grain of *Oryza sativa*.

9. Rice Flour is the clean, sound product made by bolting rice meal, and contains not more than fifteen (15) per cent of moisture, not less than one (1) per cent of nitrogen, and not more than one (1) per cent of ash.

10. Oatmeal is meal made from hulled oats, and contains not more than twelve (12) per cent of moisture, not more than one and eight-tenths (1.8) per cent of crude

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fibre, not less than two (2·00) per cent of nitrogen, and not more than two and two-tenths (2·2) per cent of ash.

11. Rye Flour is the fine, clean, sound product made by bolting rye meal, and contains not more than thirteen and one-half (13·5) per cent of moisture, not less than one and thirty-six one-hundredths (1·36) per cent of nitrogen, and not more than one and twenty-five one hundredths (1·25) per cent of ash.

12. Buckwheat Flour is bolted buckwheat meal, and contains not more than twelve (12) per cent of moisture, not less than one and twenty-eight one hundredths (1·28) per cent of nitrogen, and not more than one and seventy-five one hundredths (1·75) per cent of ash.

13. Bran is a product of the milling of wheat or other grain, and contains not less than fourteen (14) per cent of proteids, not less than three (3) per cent of fat, and not more than ten (10) per cent of crude fibre.

14. Shorts or Middlings is the coarser material sifted out from the products of a second treatment of the grain by crushing the coarsely ground material that is sifted out from the bran after the first grinding; and contains not less than fifteen (15) per cent of proteids, not less than four (4) per cent of fat, and not more than eight (8) per cent of crude fibre.

15. Chop-Feed is whole grain of one or more kinds more or less finely ground, and contains not less than ten (10) per cent of proteids not less than two (2) per cent of fat, and not more than ten (10) per cent of crude fibre.

16. Corn Starch is the starch obtained from maize or Indian Corn (*Zea Mais*), and contains not less than eighty-four (84) per cent of actual starch, and not more than thirteen (13) per cent of water, and not more than one (1) per cent of ash, and not more than three (3) per cent of substances other than starch and water.

NOTE 1.—Proteids as employed in the foregoing definitions means the product of multiplying organic nitrogen by 6·25.

NOTE 2.—Nitrite reacting Nitrogen is stated as Sodium Nitrite—(Na No.)—which for purposes of this definition is identical with nitrogen.

NOTE 3.—The Griess-Ilosvay method of determining nitrite nitrogen, described in Sutton's Volumetric Analysis, 8th Edition, p. 486 (J. & A. Churchill, London), is made official.

The standards above defined take effect on the fifth day of December prox.

W. J. GERALD,
Deputy Minister.

DEPARTMENT OF INLAND REVENUE,
OTTAWA, May 3, 1911.

MEMORANDUM.

Under the authority of an Order of His Excellency in Council, bearing date the first day of May instant, paragraphs 13, 14 and 15 of the Order in Council of the 29th October, 1910, establishing standards of quality for grain products, have been cancelled and the following substituted in lieu thereof:—

13. Bran is a product of the milling of wheat or other grain, and contains not less than fourteen (14) per cent of proteids, not less than three (3) per cent of fat, not more than ten (10) per cent of crude fibre and must be free from vital seeds of any of the noxious weeds defined by the Governor in Council under 'The Seed Control Act.'

14. Shorts or middlings is the coarser material sifted out from the products of a second treatment of the grain by crushing the coarsely ground material that is sifted out from the bran after the first grinding; and contains not less than (15) per cent of proteids, not less than four (4) per cent of fat, not more than eight (8) per cent of crude fibre and must be free from vital seeds of any of the noxious weeds defined by the Governor in Council under 'The Seed Control Act.'

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15. Chop-feed is whole grain of one or more kinds more or less finely ground, and contains not less than ten (10) per cent of proteids, not less than two (2) per cent of fat, not more than ten (10) per cent of crude fibre and must be free from vital seeds of any of the noxious weeds defined by the Governor in Council under 'The Seed Control Act.'

These amended standards will come into force on the seventh day of June proximo.

W. J. GERALD,
Deputy Minister.

DEPARTMENT OF INLAND REVENUE,
OTTAWA, November 14th, 1910.

MEMORANDUM.

Under the authority of an Order in Council of His Excellency in Council bearing date the 3rd day of November instant, and in virtue of the provisions of the 26th section of the Adulteration Act, the following standards of quality have been established for milk and its products:—

MILK AND ITS PRODUCTS.

1. Milk, unless otherwise specified, is the fresh, clean and unaltered product, obtained by the complete, uninterrupted milking, under proper sanitary conditions, of one or more healthy cows, properly fed and kept, excluding that obtained within two weeks before and one week after calving, and contains not less than three and one quarter (3·25) per cent of milk fat, and not less than eight and one half (8·50) per cent of milk solids, other than fat.

2. Skim Milk is milk from which a part or all of the cream has been removed, and contains not less than eight and one half (8·50) per cent of non-fat milk solids.

3. Pasteurized Milk is milk that has been heated below boiling, but sufficiently to kill most of the active organisms present; and immediately cooled to 45° F., or lower, and kept at a temperature not higher than 45° F., until delivered to the consumer, at which time it shall not contain more than 10,000 bacteria per cubic centimetre.

4. Sterilized milk is milk that has been heated at the temperature of boiling water, or higher, for a length of time sufficient to kill all organisms present; and must be delivered to the consumer in a sterile condition. Sterilized milk shall not be sold or offered for sale, except in hermetically closed containers bearing the words 'This milk should be used within twelve (12) hours after opening the container.'

*5. Certified Milk. Milk sold as certified milk shall comply with the following requirements:—

(a) It shall be taken from cows semi-annually subjected to the tuberculin test, and found without reaction.

(b) It shall contain not more than 10,000 bacteria per cubic centimetre from June to September; and not more than 5,000 bacteria per cubic centimetre from October to May, inclusive.

*NOTE.—It is evident that the weight carried by the term 'certified' will depend upon the character of the organization which assumes responsibility. Doubtless this will usually be a local medical association: but there is nothing to prevent any responsible body of properly qualified persons from undertaking the production of Certified Milks.

It is difficult to see in what manner the Adulteration Act can be made to apply to the case of certified milk, except in the sense of requiring that a definite food material must be true to name.

The requirements above enumerated are such that their complete fulfilment can only be properly vouched for by a local system of inspection, not provided for by the Adulteration Act. The history of milk certification, in the sense described, suffices to prove the great benefits conferred upon a community which adopts such a method of ensuring a pure product for the use of infants and invalids; and the Department of Inland Revenue, in administering the Adulteration Act, will do everything possible to assist in securing the maintenance of the high standard for certified milk which has been set by Medical Commissions, as above defined. At the same time, it is recognized that the efficient carrying out of this programme must chiefly rest with the local commission.

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(c) It shall be free from blood, pus, or disease producing organisms.

(d) It shall be free from disagreeable odour or taste.

(e) It shall have undergone no pasteurization or sterilization, and be free from chemical preservatives.

(f) It shall have been cooled to 45° F., within half an hour after milking, and kept at that temperature until delivered to the consumer.

(g) It shall contain 12 to 13 per cent of milk solids, of which at least 3·5 per cent is fat.

(h) It shall be from a farm whose herd is inspected monthly by the veterinarian, and whose employees are examined monthly by a physician.

6. Evaporated Milk is milk from which a considerable portion of water has been evaporated, and contains not less than 26 per cent of milk solids, and not less than 7·20 per cent of milk fat.

7. Condensed Milk is milk from which a considerable portion of water has been evaporated, and to which sugar has been added. It contains not less than 28 per cent of milk solids, and not less than 7·7 per cent of milk fat.

8. Condensed Skim Milk is skim milk from which a considerable portion of water has been evaporated, with or without the addition of sugar.

9. Buttermilk is the product that remains when butter is separated from ripened cream, by the usual churning processes; or a similar product, made by the appropriate treatment of skimmed milk.

10. Goat's Milk, Ewe's Milk, &c., are the fresh, clean, lacteal secretions, free from colostrum, obtained by the complete milking of healthy animals other than cows, properly fed and kept, and conform in name to the species of animals from which they are obtained.

CREAM.

1. Cream is that portion of milk, rich in milk fat, which rises to the surface of milk on standing, or is separated from it by centrifugal force, is fresh and clean, and contains (unless otherwise specified) not less than eighteen (18) per cent of milk fat.

2. When guaranteed to contain another percentage of milk fat than eighteen (18) per cent it must conform to such guarantee.

3. Cream must be entirely free from gelatine, sucrate of lime, gums or other substances added with a view to give density, consistency or apparent thickness to the article.

4. Cream must contain no preservatives of any kind, nor any colouring matter, other than is natural to milk.

5. Evaporated Cream, Clotted Cream, Condensed Cream or any other preparation purporting to be a special cream, except ice-cream, must conform to the definition of cream, and must contain at least twenty-five (25) per cent of milk fat.

MILK FAT OR BUTTER FAT.

1. Milk Fat, Butter Fat, is the fat of milk and has a Reichert-Meissl number not less than twenty-four (24) and a specific gravity not less than 0·905 $\left(\frac{40^{\circ}\text{C}}{40^{\circ}\text{C}}\right)$

BUTTER.

1. Butter is the clean non-rancid product made by gathering in any manner the fat of fresh or ripened milk or cream into a mass, which also contains a small portion of the other milk constituents, with or without salt, and contains not less than eighty-two and five-tenths (82·5) per cent milk fat, and not more than sixteen (16) per cent of water. Butter may also contain added colouring matter of harmless character.

CHEESE.

1. Cheese is the sound, solid, and ripened product made from milk or cream by coagulating the caseine thereof with rennet or lactic acid, with or without the addition

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of ripening ferments and seasoning, and contains, in the water-free substance, not less than forty-five per cent of milk fat. Cheese may also contain added colouring matter of harmless character.

2. Skim Milk Cheese is the sound, solid and ripened product made from skim milk coagulating the caseine thereof with rennet or lactic acid; with or without the addition of ripening ferments and seasoning.

3. Goat's Milk Cheese, Ewes Milk Cheese, &c., are the sound, ripened products made from the milks of the animals specified, by coagulating the caseine thereof with rennet or lactic acid with or without the addition of ripening ferments and seasoning.

ICE-CREAMS.

1. Ice-Cream is a frozen product, made from cream and sugar with or without harmless flavouring and colouring materials and with or without gelatine gum tragacanth, or other harmless stiffening materials, in amount less than two (2) per cent; and contains not less than fourteen (14) per cent of milk fat.

2. Fruit Ice-Cream is a frozen product, made as described under ice-cream, but containing sound, clean and mature fruit. It must contain not less than twelve (12) per cent of milk fat.

3. Nut Ice-cream, is a frozen product, made as described under ice-cream, but containing sound, non-rancid nuts. It must contain not less than twelve (12) per cent of milk fat.

MISCELLANEOUS MILK PRODUCTS.

1. Whey is the product remaining after the removal of fat and caseine from milk in the process of cheese-making.

2. Kumiss is the product made by the alcoholic fermentation of mare's milk or cow's milk.

3. Milk Powder is the soluble powder product made from milk and contains, unless otherwise specified, not less than ninety-five (95) per cent of milk solids, and not less than twenty-six (26) per cent of milk fat.

4. Skim Milk Powder, Separated Milk Powder is the soluble powder product made from skim milk, and contains not less than ninety-five (95) per cent of milk solids.

NOTE.—The following note is suggested as an addition to definition 3:—'Pasteurization should be effected by heating in a closed vessel for not less than 20 minutes at a temperature of 140°-145°F; or for not less than 15 minutes at a temperature of 145—15°F. When milk is heated above 150°F., certain ferments and other constituents of the milk are more or less altered, and the digestibility of the resultant milk is injuriously affected.'

The standards above defined take effect on the 12th day of December prox.

W. J. GERALD,
Deputy Minister.

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DEPARTMENT OF INLAND REVENUE,
OTTAWA, February 11, 1911.

MEMORANDUM.

Under the authority of an Order of His Excellency in Council bearing date the 8th day of February instant, and in virtue of the provisions of the 26th section of the Adulteration Act, the following standards of quality have been established for Beverages and Fruit Juices:—

BEVERAGES.

FRUIT JUICES—FRESH, SWEET AND FERMENTED.

1. *Fresh Fruit Juices.*

1. Fresh Fruit Juices are the clean unfermented liquid products obtained by the first pressing of fresh, ripe fruit, and correspond in name to the fruits from which they are obtained, and contain not more than two (2) per cent of alcohol by volume. (Equivalent to three and one half (3.5) per cent of proof spirit)

2. Apple juice, apple must, sweet cider, is the fresh fruit juice obtained from apple, the fruit of *Pyrus malus*, has a specific gravity (20°C.) not less than 1.0415 nor greater than 1.0690; and contains in one hundred (100) cubic centimetres (20°C.) not less than six (6) grammes, and not more than twenty (20) grammes of total sugars, in terms of reducing sugars, not less than twenty-four (24) centigrammes nor more than sixty (60) centigrammes of apple ash, which contains not less than fifty (50) per cent of potassium carbonate.

3. Grape juice, grape must, is the fresh fruit juices obtained from grapes (*Vitis* species), has a specific gravity (20°C.) not less than 1.0400 and not exceeding 1.1240; and contains in one hundred (100) cubic centimetres (20°C.) not less than seven (7) grammes nor more than twenty-eight (28) grammes of total sugars, in terms of reducing sugars, not less than twenty (20) centigrammes and not more than fifty-five (55) centigrammes of grape ash, and not less than fifteen (15) milligrammes nor more than seventy (70) milligrammes of phosphoric acid (P_2O_5)

4. Lemon Juice is the fresh fruit juice obtained from lemon, the fruit of *Citrus limonum*, *Risso* has a specific gravity (20°C.) not less than 1.030 and not greater than 1.040 and contains not less than ten (10) per cent of solids, and not less than seven (7) per cent of citric acid.

5. Lime juice, lime fruit juice, is the fresh fruit juice obtained from lime fruit (*Citrus limetta*); has a specific gravity at 20°C. not less than 1.030, and not greater than 1.040, and contains not less than ten (10) per cent of solids and not less than seven (7) per cent of free citric acid. Its optical activity (rotatory power to polarized light) lies between the limits $+0.5$ and -0.5 of the Soleil-Ventzke scale, when observed in a column of 200 mm. length, at 20°C.

6. Pear Juice, pear must, sweet perry, is the fresh fruit juice obtained from pears, the fruit of *Pyrus communis* or *P. sinensis*.

2. *Sterilized Fruit Juices.*

1. Sterilized fruit juices, are the products obtained by heating fresh fruit juice sufficiently to kill all the organisms present, and correspond in name to the fruits from which they are obtained.

3. *Concentrated Fruit Juices.*

1. Concentrated fruit juices are clean, sound fruit juices from which a considerable portion of the water has been evaporated, and correspond in name to the fruits from which they are obtained.

4. *Sweet Fruit Juices, Sweetened Fruit Juices, Fruit Syrups.*

1. Sweet fruit juices, sweetened fruit juices, fruit syrups, are the products obtained by adding sugar (sucrose) to fresh fruit juices, and correspond in name to the fruits from which they are obtained.

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2. Sterilized fruit syrups are the products obtained by the addition of sugar (sucrose) to fresh fruit juices, and heating them sufficiently to kill all the organisms present, and correspond in name to the fruits from which they are obtained.

5. *Fermented Fruit Juices.*

1. Wine is the product of the normal alcoholic fermentation of the juice of sound ripe grapes, neat or variously modified, and followed by a proper cellar treatment.

2. All beverages sold or offered for sale as wine shall be distinctly labelled to show the place of their production; and shall meet the requirements for wine, which are established by law in the place of their production.

3. Wine made in any part of Canada shall be labelled in such a way as to show the locality in which it has been produced. The specific name of such locality, together with the names of the makers, shall be held to be a legal description of the article.

NOTE.—The defining of types of Canadian made Wines is postponed until sufficient data have been secured.

4. Cider, hard cider, is the product made by the normal alcoholic fermentation of apple juice, and the usual cellar treatment, and contains not more than seven (7) per cent by volume of alcohol, and in one hundred (100) cubic centimetres (20°C.) of the cider, not less than two (2) grammes nor more than twelve (12) grammes of solids, not more than eight (8) grammes of sugars, in terms of reducing sugars, and not less than twenty (20) centigrammes nor more than forty (40) centigrammes of cider ash.

5. Sparkling cider, Champagne cider, is cider impregnated with carbonic acid under pressure, either by conducting the afterpart of the fermentation in closed containers, or otherwise, with or without the addition of cider or sugar-liquor, and contains, in one hundred (100) cubic centimetres (20°C.), not less than twenty (20) centigrams of cider ash.

6. *Malt Liquors and Malt Beverages.*

1. Malt liquor is a beverage made by the alcoholic fermentation of an infusion, in potable water, of barley malt and hops.

2. Ale or beer is a beverage produced by top fermentation of an infusion, in potable water, of barley malt and hops; with or without other starchy and saccharine matters, and contains in one hundred (100) cubic centimetres (20°C.) not less than two and seventy-five one-hundredths (2.75) grammes of alcohol (equivalent to six (6) per cent by volume of proof spirits), nor less than three and one half (3.5) grammes of extract, and not less than eleven one-hundredths (0.11) gramme of ash chiefly potassium phosphate.

3. Porter and stout are varieties of ale or beer made in part from highly roasted malt, or barley, and agree, in other respects, with the requirements for ale and beer.

4. Lager beer, is beer produced by bottom fermentation which contains, in one hundred (100) cubic centimetres (20°C.), not less than three and one-half (3.5) grammes of extractive matter and eleven one-hundredths (0.11) gramme of ash, chiefly potassium phosphate, and not less than two and fifty hundredths (2.50) grammes of alcohol, equivalent to four and four-tenths (4.4) per cent by volume, of proof spirits.

5. Light beer, is a beer, containing in one hundred (100) cubic centimetres, at 20°C. less than two (2) grammes of alcohol (equivalent to less than four and four-tenths (4.4) per cent by volume of proof spirits.)

7. *Spirituous Liquors.*

1. Crude alcohol or distilled spirits is the distillate obtained from a fermented mash of cereals, molasses, sugars, fruits, or other fermentable substances, and contains all the volatile flavours, essential oils, and other substances derived directly from the materials used, and the higher alcohols, ethers, acids and other volatile bodies, congeneric with ethyl alcohol produced during fermentation, which are carried over at the ordinary temperatures of distillation and the principal part of which are higher alcohols estimated as amyllic.

NOTE.—The term alcohol is here restricted to ethyl alcohol. This is in accord with ordinary usage. It is true that as a scientific term the word alcohol includes not only wood spirit (methyl hydroxide) but glycerine (a tri-hydric

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alcohol), and very numerous bodies, either quite unknown to ordinary English, or known by special names. When the word alcohol is used without any specifically modifying term, *ethyl alcohol* is to be understood. If methyl alcohol, propyl alcohol, or other alcohol is meant, the adjunct methyl, propyl, &c., must be used along with the word alcohol.

2. Alcohol, commercial alcohol, is crude alcohol from which the greater part of its constituents other than ethyl alcohol and water are separated, and contains not less than ninety-four and two-tenths (94.2) parts by volume of ethyl hydroxide in one hundred parts by volume (65 over-proof) provided, however, that such spirits may be of less than this strength, when the actual percentage is legibly and distinctly marked on each and every package, parcel, bottle, or other container of such spirits.

3. Pure alcohol, cologne spirits, neutral spirits, velvet spirits or silent spirits, is crude alcohol from which all, or practically all of its constituents except ethyl alcohol and water are separated, and contains not less than ninety-four and two-tenths (94.2) parts by volume of ethyl hydroxide, in one hundred parts by volume (65 over proof), provided, however, that such spirits may be of less than this strength when the actual percentage is legibly and distinctly marked on each and every package, parcel, bottle, or other container of such spirits.

4. Whisky is spirit obtained by distillation from a mash of cereal grains, saccharified by the diastase of malt; and contains not less than 42.75 per cent of absolute alcohol by volume; equivalent to 75 per cent by volume of proof spirits, except as provided in section 14 below.

5. Scotch whisky, is whisky made in Scotland, and contains not less than 42.75 per cent of absolute alcohol by volume; equivalent to 75 per cent by volume of proof spirits, except as provided in Section 14 below.

6. Irish whisky made in Ireland, and contains not less than 42.75 per cent of absolute alcohol by volume; equivalent to 75 per cent by volume of proof spirits, except as provided in Section 14 below.

7. Brandy is a spirit obtained by the distillation of wine, and contains not less than 42.75 per cent of absolute alcohol by volume; equivalent to 75 per cent by volume of proof spirits, except as provided in Section 14 below.

8. Imitation brandy and British brandy, are compounded spirits, prepared by a rectifier, or compounder, by redistilling duty paid spirits, made from grain, with flavouring ingredients, or by adding flavouring materials to such spirits, and contains not less than 42.75 per cent of absolute alcohol by volume; equivalent to 75 per cent by volume of proof spirits, except as provided in Section 14 below.

9. Rum is a potable spirit distilled direct from sugar cane products, in sugar cane growing countries, and contains not less than 42.75 per cent of absolute alcohol by volume; equivalent to 75 per cent by volume of proof spirits except as provided in Section 14 below.

10. Canadian rum is a spirit distilled in Canada from Canadian molasses, and contains not less than 42.75 per cent by volume of absolute alcohol, equivalent to 75 per cent by volume of proof spirits, except as provided in Section 14 below.

11. Imitation rum is a compounded spirit prepared by a rectifier or compounder by redistilling duty paid spirits, with flavouring ingredients; or by adding flavouring materials to such spirits, and contains not less than 42.75 per cent of absolute alcohol by volume; equivalent to 75 per cent by volume of proof spirits except as provided in Section 14 below.

12. Gin is a potable spirit sweetened or unsweetened, distilled only by those who hold a distiller's or rectifiers license, and use the necessary stills and plant under the control of the Excise for the purpose. It is made of grain spirit specially rectified and redistilled with juniper berries and other flavouring herbs; and contains not less than thirty-seven (37) per cent of absolute alcohol by volume; equivalent to sixty-five (65) per cent by volume of proof spirits, except as provided in Section 14 below.

13. Imitation gin is a compounded spirit, prepared by a rectifier or compounder from duty paid spirits, by adding flavouring materials to such spirits, and contains not less than thirty seven (37) per cent of absolute alcohol by volume; equivalent to sixty-five (65) per cent by volume of proof spirits, except as provided in Section 14 below.

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14. It shall not be held to be a violation of any of the foregoing definitions and regulations if a spirituous liquor designated by any of the names mentioned under Section 4 to 13 inclusive contain a lower percentage of absolute alcohol, or of proof spirits, than the percentage stated as a minimum in the definition, provided that the percentage actually contained be printed legibly and distinctly upon each and every package, parcel, bottle or other container of such spirituous liquor.

15. The word *blended*, when applied to spirituous liquors of any kind, shall mean that liquors of the same species are mixed together; for example, whisky with whisky, brandy with brandy, &c.

16. The word *compounded*, when applied to spirituous liquors, shall be held to imply that other substances than the article named, but of harmless character, have been added to the principal spirituous liquor; that is, to the spirituous liquor which gives its name to the compound.

17. Liqueurs, cordials, &c., are compounded spirits, containing sugar and other dissolved matters, and prepared from distilled spirits, or from alcohol, by infusion, by distillation or by the use of essences, &c.

The standards above defined take effect on the 13th day of March prox.

W. J. GERALD,
Deputy Minister.

DEPARTMENT OF INLAND REVENUE,
OTTAWA, March 22, 1911.

MEMORANDUM.

Under the authority of an Order of His Excellency in Council bearing date the 20th instant, and in virtue of the provisions of the twenty-sixth section of the 'Adulteration Act,' the following standards of quality have been established for 'Maple Sugar and Maple Syrup':—

MAPLE SUGAR.

Maple Sugar is the solid product resulting from the evaporation of maple sap, or of maple syrup, and contains not more than ten (10) per cent of water. It yields not less than five-tenths (0.5) of one per cent of ash, reckoned on the dry matter of the sugar. It yields not less than four-tenths (0.4) of one per cent of malic acid, reckoned on the dry matter, when worked by the method No. 1, described below; not less than two and two-tenths (2.2) as *Lead Subacetate Number*, when worked as described under method 2, below.

Method No. 1.—Six and seven-tenths grammes of the sample is weighed into a 200cc. beaker and water added to make a volume of 20cc. The solution is made slightly alkaline with ammonia, 1cc. of a ten per cent solution of calcium chloride is added; then 60cc. of 95 per cent alcohol. The beaker is covered with a watch glass and heated for one-half hour on a water bath, when the flame is turned off and the beaker left to stand over night. The material in the beaker is then filtered through a good quality filter paper, the precipitate washed with hot 75 per cent alcohol to freedom from soluble calcium salt, dried and ignited. From 15 to 20cc. of tenth normal hydrochloric acid is added to the ignited residue, the lime thoroughly dissolved by careful boiling, and the excess of acid titrated with tenth normal sodium hydroxide, using methyl orange as an indicator. One-tenth of the number of cubic centimeters of acid neutralized express the result, which for the present will be called 'Malic Acid Value.'

Method No. 2.—Five grammes (5) of sugar is dissolved in water, to a volume of 20cc. Two (2) ccs. of a solution of subacetate of lead is added, and the solutions thoroughly mixed. After standing for two (2) hours, the precipitate is filtered off, using

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a Gooch crucible or a sugar tube packed with asbestos, and washed four or five times with hot water, using the suction pump, dried and weighed. The weight of the dry precipitate in grammes is multiplied by 22.22. The product is the *Lead Subacetate Number*.

Mode of preparation of Solution of Subacetate of Lead, as follows :—

Boil for half an hour 430 grammes of normal lead acetate and 130 grammes of litharge with 1000cc. water. Cool the mixture, allow to settle, and dilute the supernatant liquid to 1.26 specific gravity.

Maple Syrup is syrup made by the evaporation of maple sap, or by the solution of maple concrete in water; and contains not more than thirty-five (35) per cent of water. The ash and *Lead Subacetate Number* expressed as percentages on the syrup when multiplied by $\frac{100}{85}$ must be equal to the corresponding standard for maple sugar.

NOTE—In determining the *Lead Subacetate Number* of maple syrup, the solution of five (5) grammes of syrup in water must be boiled to expel carbon dioxide, which might be present as a fermentation product, and the boiled and cooled liquid made up to 20cc. The weight of the lead precipitate found may be multiplied by 30.77 to give the '*Lead Subacetate Number*,' which must be not less than 2.2.

The standards above defined take effect on the 25th day of April prox.

W. J. GERALD,
Deputy Minister.

APPENDIX A.

BULLETIN No. 206—FLOUR, NITRITE REACTING NITROGEN IN

OTTAWA, April 27, 1910.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR,—I beg to hand you herewith, a report upon the examination of two hundred and twenty-three (223) samples of flour, with special reference to the determination of Nitrite reacting Nitrogen. These samples may be taken as fairly representing flour, as sold throughout Canada, since they have been obtained in all the inspectorial districts of the Dominion.

The question of the artificial whitening (bleaching) of flour by means of nitrous oxide, has caused much discussion, both among millers and by the consuming public, during the last year. Especially is this true of the United States, where the matter was brought to a focus by a decision given by Judge Pollock in the Supreme Court of North Dakota, in January, 1909. Expert testimony was heard on both sides of the case, which arose out of a question raised by the Russell-Miller Milling Co. *et al.*, as to whether Food Commissioner Ladd was legally justified in condemning the sale of flour bleached by nitrous oxide, as being contrary to the North Dakota Food Law.

The court upheld the validity of Commissioner Ladd's action, and thus made the sale of bleached flour illegal in North Dakota. But, as regards the harmfulness to health of the bleached flour, Judge Pollock expressed himself, as follows :—'After considering all the testimony, I am of the clear opinion that upon the general claim of having introduced no deleterious compound or substance into the flour, which remains therein after baking, the plaintiffs have been successful, and that the decided weight of the testimony is in their favour in this respect.' It would thus appear that, while the judgment is a technical victory for the food commissioner, it is a victory, in a more real sense, for the millers.

More recently (March, 1910), the State of Pennsylvania indicted a grocer for selling corn starch in which the State Chemist found a trace of nitrites (about 2·8 parts, per million). Experts were heard on both sides, the defendants (National Starch Co.) claiming that no nitrites had been used in the manufacture of the article, and disclaiming all responsibility for the presence of nitrites found by the analyst. Among other technical evidence adduced by the defendants, it was shown that starches made by the alkali process, are capable of taking up oxides of nitrogen from the air. Also, that flour, although having an acid reaction, contains, in its colouring matter a base similar to the alkali in starch, and that this colouring matter combines with great avidity with the oxides of nitrogen in air to form a nitrite.

The judge said he had become convinced 'that the case involved some scientific truths, not before known; and that while the State had brought the case in all good faith, he was convinced that the defendant ought not to be found guilty.'

It will be seen from the foregoing, that the question of bleached flour is still unsettled, considered from the standpoint of the health of the consumer. Another difficulty is that of the analyst whose duty it is to discover whether or not a given sample has been bleached.

The question of the validity of legislation in the matter does not concern us, as Canada has no legislation with regard to bleached flour. It is quite certainly within the scope of the Adulteration Act, to pronounce upon the question of what shall, and what shall not, be sold as flour in Canada. Whether or not, it may be considered desirable to prohibit the manufacture and sale of flour bleached by oxides of nitrogen, is, for the present, in abeyance. The immediate object of the present investigation is to ascertain whether our analytical methods and our knowledge of the subject, are such as to enable us to pronounce, with certainty, that a given sample of flour has been so bleached. Until we can accomplish this, any legislation in the matter would, of course, remain a dead letter. But before undertaking a study of the results now placed in your hands, it may be permitted to consider briefly some aspects of the fact of bleaching, itself.

It is well known that a new flour becomes lighter in colour by exposure to light and air. It is believed that the colouring matter is chiefly present in the minute traces of oil which remain in flour, even when most carefully made, by modern machinery. This is apparent from the fact that a good solvent for oils, (gasoline) is capable of removing from flour at the same time the oil and the colouring matters. The whitening of a flour by exposure to light and air may be spoken of as natural bleaching, and this is one of the results of the so-called 'ageing' of flour. Ordinary air contains minute traces of oxides of nitrogen, and sometimes faint traces of an active form of oxygen, known as ozone. It is found that any means by which we can increase the amount of oxides of nitrogen and of ozone, in the air, increases at the same time, the effectiveness of such air, as a bleacher of flour.

No objection has ever been taken (so far as I am aware) to the addition of ozone to air; but the oxides of nitrogen, being much more easily available, and more vigorous in action, are usually employed, either with or without ozone. These oxides are very poisonous, and the main argument against their use is based upon the assumption that sufficiently large amounts of them in excess of the quantity actually employed in destroying the colour, remain in the flour, to give it a positively harmful and dangerous character. This is denied by millers, who further claim that the heat of the oven would effectively drive off any excess of oxides of nitrogen, did such excess exist in the flour. The arguments for and against the wholesomeness of nitrite bleached flour, must, for the present be taken as leaving the matter an open question.

As to the occurrence of nitrite reacting nitrogen in flour, it is undeniable that flour may take up oxides of nitrogen from the air, which at all times contains traces of these oxides, such traces being more distinctly marked after electrical discharges, or disturbances. A sample of flour which gave no reaction for nitrites, was exposed for 10 days (March 12) to the outer air, on the roof of this building. At the end of that time it was found to contain 1·6 parts per million. On further exposure for a total period 25 days, it showed 3·0 parts per million. An exposure of 4 days in the atmosphere of the laboratory, which is of necessity more highly charged with oxides of nitrogen than the outer air, resulted in the taking up of 5·2 parts per million. Flour which has been

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bleached by oxides of nitrogen, especially if it has been treated in excess, will naturally give off the excess of these gases, and may thus contaminate flour stored in its vicinity. A sample which contained 6.3 parts per million was inclosed under a bell-jar with another sample which gave no nitrite reaction. After 12 days the first sample was found to contain 5.7 parts per million, while the second sample, which had contained no nitrites, now showed 0.5 parts per million. Another sample showing 5 parts nitrite per million, was similarly inclosed with a nitrite free sample, for 15 days; at the end of which time, the second sample was found to have taken up only a trace of nitrite nitrogen, while the first sample showed only 1 part per million. This disappearance of nitrite nitrogen was probably due to oxidation to the nitric condition. In all the cases cited, the flour was exposed in thin layers, and was thus given every chance to take up any oxides of nitrogen in the air about it. Normal storage of flour in bags or barrels furnishes quite different conditions, and it is reasonable to suppose that the absorption of oxides of nitrogen here quoted, is very much greater than would obtain under commercial conditions.

Alway and Gortner (Jour. Am. Chem. Soc. 1907, 1503) find the average amount of nitrites in bleached flour to be 3.3 per million. Is it possible to fix a limit of nitrite above which it shall be safe to declare 'this flour has been bleached.' Out of the 223 samples now reported, 148 give no reaction for nitrites.

Of 75 samples which show measurable amounts of nitrites, 25 contain not more than 1 part per million, leaving 50 samples, or 22 per cent of the total collection, to contain above 1 per million of nitrites.

In the following tabulation of results, it must be understood that the statements of fact given are intended as a basis for the discovery and enunciation of a principle, and are not to be taken as ascertained evidence for or against bleaching, or as affirming or negating the fact of bleaching in a particular case. It is amply evident that the bleaching of flour by oxides of nitrogen has resulted from a popular demand for white flour, and a conviction on the part of the millers that they were meeting this demand in a perfectly harmless manner. Whether or not any danger to public health results from bleaching flour by oxides of nitrogen, is a most important question, and one upon which judgment is reserved. Of this we may feel perfectly sure that should a decision be reached, upon scientific grounds, and so clear as to justify the prohibition of oxides of nitrogen as bleaching agents, the larger millers will be found prompt to recognize such decision and to live up to it.

In the meantime consumers who object to taking any risks, and who want to know that no fundamental change in the character of a food stuff so important as flour, can occur without their being made aware of it, have a right to be informed whether a flour offered them has been treated with oxides of nitrogen, or not. It is therefore desirable that, if possible, limiting standards should be set, as follows:—(1) A definite content of nitrite reacting nitrogen in flour, exceeding which we may feel justified in saying 'this flour has been bleached by oxides of nitrogen;' (2) a maximum content of nitrite reacting nitrogen beyond which we may conclude 'this flour is probably dangerous to health.'

I believe that the data furnished herewith will assist the advisory board to reach conclusions on these points, as well as to instruct the public regarding the matter of bleached flour; and I beg to recommend the publication of this report as Bulletin No. 206.

I have the honour to be, sir,
Your obedient servant,

A. MCGILL,
Chief Analyst.

NOTE.—In the above, and throughout this Bulletin, nitrite reacting nitrogen is stated in terms of sodium nitrite. This is in conformity with the usage of writers on the subject, and in order to facilitate comparison.

No. of Sample.	Name of Manufacturer.	Name of Brand.	Nitrite reacting Nitrogen as NaNo ₂ .
39657	The Quaker Oats Co.	Quaker.	0·75
42918	" "	Quaker.	none.
44219	" "	"	none.
39653	Ogilvie Milling Co.	Royal Household.	none.
40429	" "	Royal Household.	0·5
42920	" "	Royal Household.	none.
43420	" "	Royal Household.	none.
35650	" "	Royal Household.	none.
35655	" "	Royal Household.	none.
35647	" "	Royal Household.	none.
35644	" "	Royal Household.	none.
37816	" "	Royal Household.	none.
41634	" "	Royal Household.	none.
1267	" "	Glenora	none.
40438	" "	Glenora	1·8
41447	" "	Glenora	trace.
43421	" "	Glenora	none.
1264	" "	Baker's Special.	none.
37815	" "	Economy.	none.
44213	" "	"	0·7
1262	Western Canada Flour Mills Co	Purity.	trace.
42914	" "	Purity.	3 2
42922	" "	Purity.	0·5
41448	" "	Purity.	trace.
44727	" "	Purity.	1·3
37827	" "	Purity.	3·7
41639	" "	Purity.	0·9
43418	" "	Purity.	none.
40436	" "	3 Stars.	none.
43419	" "	3 Stars.	none.
1266	" "	Pastry.	none.
43423	" "	Snow Drift.	none.
43424	" "	Lily.	none.
44208	" "	"	1·0
44211	" "	"	1·0
41901	McLeod Milling Co., Stratford, Ont.	McLeod's Special.	trace.
41910	" " " "	McLeod's Special.	2·5
41904	T. H. Taylor Milling Co., Chatham, Ont.	Beaver.	1·1
41907	" " " "	Beaver.	none.
38634	" " " "	Beaver.	none.
41908	" " " "	Beaver.	none.
41905	Lake of the Woods Milling Co.	Five Roses.	none.
41915	" " " "	Five Roses.	none.
38645	" " " "	Five Roses.	none.
39648	" " " "	Five Roses.	none.
36509	" " " "	Five Roses.	none.
1273	" " " "	Five Roses.	none.
42921	" " " "	Five Roses.	none.
43427	" " " "	Five Roses.	none.
35643	" " " "	Five Roses.	none.
35645	" " " "	Five Roses.	0·5
3 648	" " " "	Five Roses.	0·5
35656	" " " "	Five Roses.	none.
37813	" " " "	Five Roses.	none.
41635	" " " "	Five Roses.	none.
40427	" " " "	Five Roses.	none.
40437	" " " "	Keewatin.	none.
43428	" " " "	Harvest Queen.	nene.
44206	" " " "	"	none.
44212	" " " "	"	none.
44214	" " " "	"	none.
44217	" " " "	"	none.
44734	" " " "	"	none.
41906	Campbell Milling Co., Chatham.	Halifax.	1·7
41914	" " " " Toronto.	Queen City.	none.
39650	" " " " Toronto West.	Cream of the West.	trace.
39658	The John Campbell Co., Ltd., St. Thomas.	Sunbeam.	2·3
41461	" " " " "	Sunbeam.	4·6
39685	" " " " "	White Rose.	8·8
38644	" " " " "	Campbell's Blend.	1·0

SESSIONAL PAPER No. 14

No. of Sample.	Name of Manufacturer.	Name of Brand.	Nitrite reacting Nitrogen as NaNo.
42541	Campbell's Milling Co., St. Thomas	Campbell's Blend.	trace.
44717	Goldie Milling Co., Guelph	Snow Drift.	9.0
41909	" " Ayr, Ont.	Goldies Star	5.0
38638	" " "	Goldies Star	3.4
39647	" " "	Goldies Star	5.3
38641	" " "	Our Best.	6.5
39652	" " "	Gold Seal.	4.5
44746	" " Guelph		2.0
41911	Tillson Milling Co., Tillsonburg.	Tillson's Delight	none.
41913	" " "	Rainbow.	none.
38632	" " "	Tillson's Pride	none.
38636	" " "	Royal Stewart	trace.
38631	Canadian Flour Mills, Chatham.	Five Diamonds.	1.0
38635	" " "	Kent Mills.	7.2
38637	Wolverton Milling Co.	Estey	4.0
38640	" " "	Holmans Leader	none.
39659	" " "	Keystone	2.8
39645	Plattsville Milling Co.	Strathcona	none.
39655	The Flavelle Milling Co.	Crusader.	2.5
39651	The Meduxnakeag Roller Mills.	Primrose.	none.
42513	Watford Milling Co.		trace.
42526	Hayne Milling Co.	Haynes best 3 points.	none.
42531	Eureka Roller Mills.	Eldorado.	3.1
42524	" " "	Eldorado.	5.2
43417	Morden Roller Mills.	Early Down.	none.
43430	Leitch Bros. Milling Co.	Sovereign?	0.5
44207	" " "		2.0
35646	Medicine Hat Milling Co.	Prairie Pride.	none.
37818	" " "	Prairie Pride.	none.
41640	" " "	Prairie Pride.	none.
35649	Taylor Milling Co.	Pride of Alberta.	none.
35651	" " "	Pride of Alberta.	2.3
35652	Calgary Milling Co.	Seal of Alberta.	5.3
35653	" " "	Seal of Alberta.	1.0
41647	" " "	Seal of Alberta.	2.6
41642	" " "	Hungarian Patent.	0.5
35654	Western Milling Co.	Rising Sun.	none.
37817	Saskatchewan Flour Mills.	Robin Hood.	1.2
41641	" " "	Robin Hood.	1.4
44215	" " "	Robin Hood	1.2
37819	Allison Milling & Elevator Co.	Our Best.	1.0
41646	" " "	Our Best.	3.0
37821	Vancouver Milling Co.	Wild Rose.	none.
41643	" " "	Wild Rose.	none.
41644	" " "	Royal Standard.	none.
1263	Renfrew Roller Mills Co.	White Star.	1.2
1270	" " "	White Star.	4.5
1271	Norval Roller Mills.	Pastry.	none.
40428	Wm. Scott & Co.	White Clover.	none.
42924	" " "	White Clover.	trace.
42925	" " "	Polar Star.	none.
42913	Maple Leaf Flour Mills Co.	Nelson.	none.
42919	" " "	Quality.	none.
43425	" " "	Hard Wheat.	none.
43426	" " "	Castle.	none.
42915	Campbell & McNabb.	Rosebud.	none.
42917	Hunt Bros	Cabot	6.3
44739	" " "		2.0
42516	" " "		none.
42507	" " "	Diamond.	2.0
42923	Dowd Milling Co.	Hungarian Patent	none.
44210	Seaforth Milling Co.		trace.
44732	" " "	Wane Crest.	none.
44218	Peterboro Cereal Co.		trace.
44220	Central Milling Co.		0.5
41455	Caledonia Milling Co.	Bridal Veil.	none.
44738	Goderich Milling Co.		2.0
37822	Columbia Flour Mills.	Premium.	0.5
37826	" " "	Drifted Snow.	none.

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No. of Sample.	Name of Manufacturer.	Name of Brand.	Nitrite reacting Nitrogen as NaNO_2
41636	Columbia Flour Mills.....	Drifted Snow.....	none.
41637	" ".....	Three Star.....	none.
41645	" ".....	Moffets Best.....	none.
37824	Hammond Milling Co.....	Queen Ann.....	1.2
37825	Easterbrook Milling Co.....	Imperial.....	none.
41638	The Portland Flouring Mills Co.....	Snowflake.....	none.
1276	Sutcliffe Milling Co.....	Bread.....	none.
40439	McDonald & Robb.....	Our Best.....	none.
40440	" ".....	R. H. Patent.....	none.
1275	" ".....	Pastry.....	none.
42911	Pembroke Milling Co.....	Manitoba Blend.....	none.
42912	Jno. P. Millar & Sons.....	Bakers Patent.....	none.
42916	G. D. Atkinson.....	Atkinson's Special Hungarian.....	none.
44209	Kingston Milling Co.....		none.
41452	The Wood Milling Co.....	Gold Medal.....	none.
41453	The Hamilton Milling Co.....	Peacemaker.....	none.
41454	The Ker Milling Co.....	Thistledown.....	none.
41457	Milton Flour Mills.....		none.
41458	J. Black & Son.....	Herald.....	none.
41459	The Helley Shaw Milling Co.....	Selkirk.....	none.
41460	Monroe & Roantree.....	Perfect.....	none.
44722	Irvin Masters.....	King.....	trace.
42537	King Milling Co.....	Bonnie Doon.....	none.
43416	W. J. Lindsay & Co.....	Lindsay's Patent.....	none.
43422	Geo. McCulloch & Sons.....	Ladies Choice.....	none.
43429	Nichols Hubbard & Brine.....	Sweet Home.....	0.5
37823	Hudson Bay Co.....	Hudson Bay Hungarian.....	none.
41648	Central Mills.....	Whole Wheat.....	none.
41902	B. A. Thomson.....	Favourite.....	1.9
41903	Coffard & Sons.....	Lady of Snow.....	1.4
44743	S. Carter & Sons.....		none.
41912	C. Carter Co., Ltd.....	Carters Best.....	none.
38643	" ".....	Sinclair & Stewarts Best.....	none.
38634	Shirk & Snider.....	Buda.....	1.2
38639	" ".....	Rear Admiral.....	none.
38642	G. W. Robinson.....	Red Rose.....	none.
39646	Jas Cullen.....	Silver King.....	none.
39654	Partlo-Miller.....	Gold Leaf.....	1.8
39656	S. J. Cherry.....	Gold Coin.....	none.
1265	Stewart, Denault Co.....	White Rose.....	none.
1268	Carrignan & Fils.....	Pastry.....	none.
1272	The Alex. Brown Milling & E. Co.....	White Rose.....	none.
1274	Manitoba Self Raising Flour Co.....	Prepared.....	0.5
40431	Snyder Milling Co.....	Ocean.....	none.
40432	" ".....	Ocean.....	none.
44216	A. Pratt.....		none.
41449	N. V. Denne & Co.....	White Crown.....	none.
41450	W. S. Summerfeldt & Sons.....	Regina.....	none.
41451	G. S. Baldwin.....	Hungarian.....	none.

SESSIONAL PAPER No. 14

No. of Sample.	Name of Manufacturer or Furnisher.	Name of Brand.	Nitrite reacting Nitrogen as NaNO ₂
41456	R. W. Smith .....	.....	none.
44725	Faber Bros.....	Lily White.....	none.
36512	"	Lily White.....	trace.
44735	Stewart Bros.....	Perth Standard.....	none.
44740	" .....	.....	none.
44742	Ratz & Co.....	.....	2·0
44747	Cargel & Son.....	.....	none.
44750	J. & V. Fair.....	.....	none.
42506	H. Hamlyn	Hearty Delight.....	trace.
42512	J. Hawkins	Hawkins Daisy.....	none.
42534	W. W. Paling.....	.....	none.
42535	J. Martyn... ..	Our Best.....	none.
42540	Jas. Cullen	King Edward.....	2·7
35642	Campbell & Otherwell	White Rose.	0·5
36508	J. B. Renaud & Cie.....	Royal	4·2
36521	" .....	.....	2·2
36518	" .....	.....	none.
36510	P. G. Busière.....	Patent.....	none.
36511	"	National	none.
36516	" .....	.....	0·5
36513	Désiré Drolet	Frontenac	none.
36519	" .....	.....	none.
36514	Drolet & Dugal.	Esty	5·0
36515	Lennon & Co	Shamrock.....	0·8
36517	W. Carrière & Fils.	Royal Alexandra.....	none.
1269	A. Spénard.....	Pastry.....	1·7

No. of Sample.	Name of Vendor.	Name of Brand.	Nitrite reacting Nitrogen as NaNO ₂
36520	G. Moreau.....	.....	2·0
36522	A. Pouliot.....	.....	3·2
40430	F. Riley	" A "	0·5
40433	W. H. Lanning	Best Pastry.....	trace.
40434	O. Marchand.....	Champion	none.
40435	J. G. Leonard	Hurona.....	trace.
40441	J. B. Lefebvre.....	Canadian Bakers.....	none.
37814	E. A. Edgett Co... ..	.....	none.
37820	A. & C. Grocery . . . . .	.....	0·5

BULLETIN No. 206—FLOUR—(NITRITE REACTING NITROGEN IN).

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS		No. of Sample.
				Quantity.	Cents.			Nitrite re-acting Ni-trogen. Parts per million.	Calculated as Sodium Nitrite. Parts per million.	
DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.										
1910.										
Mar.	7 Flour.	41901	Larder Hubley & Co., Halifax, N.S.	2 lbs.	10	McLeod Milling Co., Stratford, Ont.	McLeod's Special.	Trace....	Trace....	41901
"	"	41902	Dillon Bros., Halifax, N.S.	2 "	8	B. A. Thompson, Lyden, Ont.	Favourite....	0.38	1.9	41902
"	"	41903	C. S. Davis, Halifax, N.S.	2 "	7	Coffard & Sons, Thamesford, Ont	Lady of Snow....	0.28	1.4	41903
"	"	41904	W. E. Crowe & Co., Halifax, N.S.	2 "	8	T. H. Taylor Milling Co., Chatham, Ont.	Beaver.....	0.22	1.1	41904
"	"	41905	Share & Campbell, Halifax, N.S.	2 "	10	Lake of the Woods Milling Co., Toronto, Ont.	Five Roses....	None.....	None.....	41905
"	"	41906	J. L. Archibald, Halifax, N.S.	2 "	8	Campbell Milling Co., Chatham, Ont.	Halifax.....	0.34	1.7	41906
"	"	41907	W. J. Hopgood & Son, Halifax, N.S.	2 "	8	T. H. Taylor Milling Co., Chatham, Ont.	Beaver.....	None.....	None.....	41907
"	"	41908	J. D. Stewart, Halifax, N.S.	2 "	8	"	"	"	"	41908
"	"	41909	R. B. Adams & Co., Halifax, N.S.	2 "	8	Goldie Milling Co., Ayr, Ont.	Goldie's Star....	1.0	5.0	41909
"	"	41910	S. T. Craig, Halifax, N.S.	2 "	8	McLeod Milling Co., Stratford, Ont.	McLeod's Special....	0.5	2.5	41910
"	"	41911	H. C. Barnaby & Sons, Bridgewater, N.S.	2 "	8	Tillson Milling Co., Ltd., Tillsonburg, Ont.	Tillsons Delight....	None....	None...	41911
"	"	41912	Bent & Jodfrey, Bridgewater, N.S.	2 "	8	C. Carter Co., Ltd., St. Marys, Ont.	Carters Best....	"	"	41912
"	"	41913	Wm. Law & Co., Yarmouth, N.S.	2 "	8	Tillson Milling Co., Ltd., Tillsonburg, Ont.	Rainbow.....	"	"	41913
"	"	41914	Cain Bros., Yarmouth, N.S.	2 "	8	Campbell Milling Co., Ltd., Toronto, Ont.	Queen City.....	"	"	41914
"	"	41915	O. Lyons, Kentville, N.S.	2 "	7	Lake of the Woods Milling Co., Toronto, Ont.	Five Roses....	"	"	41915

SESSIONAL PAPER No. 14

DISTRICT OF PRINCE EDWARD ISLAND—T. MOORE, INSPECTOR.

Mar.	5	Flour.....	38631	Geo. Rackham, Charlottetown	2 lbs..	7	Canadian Flour Mills, Chatham, Ont.	Five Diamonds.....	0.2	1 0	38631
"	5	"	38632	W. W. Walker, Charlottetown	2 " "	7	Tillson Co., Tillsonburg, Ont....	Tillson's Pride	None.....	None. .	38632
"	5	"	38633	T. F. Mahar, Charlottetown	2 " "	7	Shirk & Snider, Bridgeport, Ont.	Buda.....	0.24	1.2	38633
"	5	"	38634	Joseph Crabbe, Charlottetown	2 " "	7	T. H. Taylor, Chatham, Ont....	Beaver.....	None.....	None.....	38634
"	5	"	38635	T. E. Hagon, Charlottetown	2 " "	7	Canadian Flour Mills, Chatham, Ont.	Kent Mills.....	1.44	7.2	38635
"	8	"	38636	Beer & Goff, Charlottetown	2 " "	7	Tillson Co., Tillsonburg, Ont. . .	Royal Stewart.....	Trace.....	Trace.....	38636
"	8	"	38637	Stewart & Son, Charlottetown	2 " "	7	Wolverton Milling Co., Wolverton, Ont.	Estey	0.8	4.0	38637
"	9	"	38638	D. McKenzie & Co., Kensington	2 " "	7	Goldie Milling Co., Ayr, Ont....	Star.....	0.68	3.4	38638
"	9	"	38639	James Kennedy, Kensington	2 " "	7	Shirk & Snider, Bridgeport, Ont.	Rear Admiral	None.....	None.	38639
"	10	"	38640	R. T. Holman Ltd., Summerside	2 " "	7	Wolverton Milling Co., Wolverton, Ont.	Holman's Leader.....	"	"	38640
"	10	"	38641	Brace & McKay, Summerside	2 " "	7	Goldie Milling Co., Ayr, Ont. .	Our Best.....	1.3	6.5	38641
"	10	"	38642	F. W. Strong, Summerside	2 " "	7	G. W. Robinson, Summerside....	Red Rose	None.....	None.....	38642
"	10	"	38643	Sinclair & Stewart, Summerside	2 " "	7	George Carter & Co., St. Marys, Ont.	Sinclair & Stewart's Best	"	"	38643
"	15	"	38644	A. L. McDonald, Souris.....	2 " "	7	John Campbell Co., St. Thomas, Ont.	Campbells Blend.....	0.2	1.0	38644
"	15	"	38645	Mathew & McLean, Souris...	2 " "	7	Lake of the Woods Milling Co., Keewatin, Ont.	Five Roses.....	None. .	None. .	38645

DISTRICT OF NEW BRUNSWICK—J. C. FERGUSON, INSPECTOR.

Mar.	3	Flour.....	39645	Two Barkers Limited, St. John, N.B.	2 lbs..	6	Plattsville, Milling Co., Ontario.	Stratheona.....	None.....	None.....	39645
"	5	"	39646	J. Fred Shaw, St. John, N.B.	2 " "	10	James Cullen, Woodstock, Ont.	Silver King.....	"	"	39646
"	9	"	39647	W. A. Porter, St. John, N.B.	2 " "	10	D. Goldie, Ontario.....	Goldie's Star.....	1.06	5.3	39647
"	10	"	39648	H. S. & W. H. Frances, St. John, N.B.	2 " "	10	Lake of the Woods Milling Co., Keewatin.	Five Roses.....	None.....	None.....	39648
"	15	"	39650	John McKnight, Fredericton, N.B.	2 " "	8	The Campbell Milling Co., West Toronto.	Cream of the West	Trace.....	Trace.....	39650
"	16	"	39651	Meduxnakeag Roller Mills, Woodstock, N.B.	2 " "	10	Vendor.....	Primrose.....	None.....	None.....	39651

BULLETIN No. 206—FLOUR—(NITRITE REACTING NITROGEN IN).

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS		No. of Sample.
				Quantity.	Cents.			Nitrite reacting Nitrogen. Parts per million.	Calculated as Sodium Nitrite. Parts per million.	

DISTRICT OF NEW BRUNSWICK—J. C. FERGUSON, INSPECTOR—Concluded.

1910.										
Mar. 17	Flour	39652	B. Beveridge, Andover, N.B.	2 lbs.	10	Goldie Milling Co., Ltd.	Gold Seal.	0.9	4.5	39652
" 18	"	39653	J. W. McPhail, Perth, N.B.	2 "	10	Ogilvie Milling Co., Ltd., Canada	Royal Household.	None	None	39653
" 18	"	39654	Mrs. L. Mallory, Perth, N.B.	2 "	10	Partlo Miller, Ingersoll.	Gold Leaf.	0.36	1.8	39654
Apr. 5	"	39655	The Sussex Mercantile Co., Ltd., Sussex, N.B.	2 "	10	The Flavelle Milling Co., Lindsay, Ont.	Crusader.	0.5	2.5	39655
" 7	"	39656	D. & J. Ritchie & Co., Newcastle, N.B.	2 "	10	S. J. Cherry, Ontario	Gold Coin.	None	None	39656
" 7	"	39657	M. Bannon, Newcastle, N.B.	2 "	10	The Quaker Oats Co., Peterboro.	Quaker.	0.15	0.75	39657
" 8	"	39658	The Nepisiguit Lumber Co., Bathurst, N.B.	2 "		The John Campbell Co., Ltd., St. Thomas, Ont.	Sunbeam.	0.46	2.3	39658
" 8	"	39659	Jos. J. Meahan, Bathurst, N.B.	2 "	10	Wolverton Milling Co., Wolverton, Ont.	Keystone.	0.56	2.8	39659
" 8	"	39685	W. J. Kent, Bathurst, N.B.	2 "	7	The John Campbell Co., Ltd., St. Thomas, Ont.	White Rose.	1.76	8.8	39685

DISTRICT OF QUEBEC—E. BELAND, INSPECTOR.

Mar. 2	Flour	36508	T. E. Morand, 406 Rue Valier, Quebec.	2 lbs.	7	T. B. Reneaud & Co., Quebec.	Royal.	0.84	4.2	36508
" 2	"	36509	Alfred Boily, 56 Cote D'Abraham, Quebec.	2 "	8	P. G. Busiere, Quebec	Five Roses.	None	None	36509
" 2	"	36510	F. A. Minguy, 139 Rue Richelieu, Quebec.	2 "	7	"	Patent.	"	"	36510
" 2	"	36511	T. Voyer, 226 Rue Richelieu, Quebec.	2 "	7	"	National	"	"	36511

SESSIONAL PAPER No. 14

"	2	"	36512	Jos. Boiteau, 27 Rue Sutherland Quebec.	2 "	7	T. B. Reneaud & Co., Quebec...	Lily White.....	Trace.....	36512
"	2	"	36513	V. Lacasse, 17 Rue St. Clair, Quebec.	2 "	"	Desire Drolet, Quebec.....	Frontenac.....	None.....	36513
"	2	"	36514	Thon. Macklosky, 21 Rue St. Michel, Quebec.	2 "	8	Drolet & Dougal, Quebec.....	Esty.....	5 0	36514
"	2	"	36515	N. Binet, 1 Rue des Jardines, Quebec.	2 "	10	Lenon & Co., Quebec ..	Shamrock.....	0 8	36515
"	2	"	36516	O. Lacroix, 19 Rue St. Joseph, Quebec.	2 "	8	P. G. Busiere, Quebec ..	.....	0 5	36516
"	4	"	36517	Hamel & Bedard, 728 Rue St. Clair, Quebec.	2 "	7	W. Carriere & fils, Quebec ..	Royal Alexandra ..	None.....	36517
"	4	"	36518	N. Lamontagne, 71 Rue Sauva- geau, Quebec.	2 "	7	T. B. Reneaud & Cie, Quebec.	.....	"	36518
"	7	"	36519	Madm V. A. Baril, 143 3m Av., Limoilou.	2 "	8	Desire & Drolet, Quebec ..	.....	"	36519
"	7	"	36520	G. Moreau, 4em Ave., Limoilou.	2 "	7	Unknown .....	.....	2 0	36520
"	7	"	36521	G. H. St. Cyr, 95 Rue du Pont, Limoilou.	2 "	10	T. B. Reneaud & Cie, Quebec.	.....	0 44	36521
"	7	"	36522	A. Pouliot, 45 Rue Laliberte, Limoilou.	2 "	8	Unknown .....	.....	0 64	36522

DISTRICT OF ST. HYACINTHE—J. C. ROULEAU INSPECTOR.

Mar.	3	Flour.....	1262	Percy & Reade, Bedford.....	2 lbs..	7	Western Canada Flour Mills, Montreal.	Purity.....	0 1	0 5	1262
"	3	"	1263	Arsene Duchesneau, Stanbridge Station.	2 "	6	The Renfrew Roller Mills Co., Renfrew.	White Star.	0 24	1 2	1263
"	3	"	1264	J. H. Brault, St. Armand ..	3½ "	12	Ogilvie Milling Co., Montreal. .	Bakers Special....	None	None.....	1264
"	4	"	1265	Ed. Laberge, Iberville.....	2 "	6	Stewart-Denault Co., Ltd., St. Jean.	White Rose	"	"	1265
"	7	"	1266	J. O. Veronneau, Drummond- ville.	2 "	6	Western Flour Mills Co., Mont- real.	Pastry.....	"	"	1266
"	7	"	1267	O. Marcotte, Davelnyville	2 "	7	Ogilvie Milling Co., Montreal. .	Glenora	"	"	1267
"	8	"	1268	P. E. Cyrenne, Becancour.....	2 "	6	Carrignan & fils, Trois Rivières..	Pastry.....	"	"	1268
"	9	"	1269	Arthur Blanchet, St. Angele de Laval.	2 "	6	A Spenard, Trois Rivières	Pastry.....	0 34	1 7	1269
"	10	"	1270	Gerin & Boulay, Coaticook..	2 "	7	The Renfrew Roller Mills Co., Renfrew.	White Star.	0 9	4 5	1270
"	15	"	1271	R. W. Bradford, Granby.	2 "	7	Norval Roller Mills, Norval, Ont.	Pastry.....	None ..	None... ..	1271
"	15	"	1272	N. O. Rockwell, Waterloo	2 "	7	The Alex. Brown Milling & E. Co., Toronto.	White Rose	"	"	1272

BULLETIN No. 206—FLOUR—(NITRITE REACTING NITROGEN IN).

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS		No. of Sample.
				Quantity.	Cents.			Nitrite re-acting Ni-trogen. Parts per million.	Calculated as Sodium Nitrite. Parts per million.	

DISTRICT OF ST. HYACINTHE J. C. ROULEAU, INSPECTOR—Concluded.

1910.										
Mar. 15	Flour.....	1273	A. M. Hunter, Foster.	2 lbs..	7	The Lake of the Woods Milling Co., Montreal.	Five Roses.....	None.....	None.....	1273
" 16	"	1274	E. Paradis, Magog.....	pkge.	18	Manitoba Self-raising Flour Co., Montreal.	Prepared.....	0.1	0.5	1274
" 16	"	1275	Hulburt & Bell, Cowansville....	2 lbs..	7	McDonald & Robb, Valleyfield..	Pastry.....	None.....	None.....	1275
" 17	"	1276	Stewart, Denault & Co., Ltd., St. Jean.	2 " ..	7	Sutcliffe Milling Co., Moosomin, Sask.	Bread	"	"	1276

DISTRICT OF MONTREAL—J. J. COSTIGAN, INSPECTOR.

Mar. 9	Flour.	40427	W. Mayer, St. Jerome, P.Q.....	2 lbs..	7	.....	Five Roses.. ..	None.....	None.....	40427
" 9	"	40428	C. E. Laflamme, St. Jerome, P.Q.	2 " ..	6	Wm. Scott & Co., Ottawa ..	White Clover.	"	"	40428
" 10	"	40429	A. Bastian, 686 Laurier Ave., Montreal.	2 " ..	8	Ogilvie Milling Co., Ltd.....	Royal Household.. ..	0.1	0.5	40429
" 10	"	40430	F. Riley, 738 Laurier Ave., Montreal.	2 " ..	8	.....	"A.".....	0.1	0.5	40430
" 10	"	40431	A. E. Sennat, 147 Villeneuve, Montreal.	2 " ..	8	Snyder Milling Co.....	Ocean.....	None.....	None.....	40431
" 10	"	40432	J. F. Legault, 148 Villeneuve, Montreal.	2 " ..	9	.....	" .....	" .....	" .....	40432
" 10	"	40433	W. H. Lanning, 1051 St. Louis, Outremont.	2 " ..	10	.....	Best Pastry	Trace.....	Trace.....	40433
" 11	"	40434	Omer Marchand, Beauharnois, P.Q.	2 " ..	7	.....	Champion	None.	None....	40434
" 11	"	40435	J. G. Leonard, Beauharnois, P.Q.	2 " ..	7	.....	Hurona.....	Trace. .	Trace.....	40435

"	15	"	"	40436	F. O. Lamarche, Berthierville, 2 " .. P.Q.	6	Western Canada Flour Mills Co., Ltd.	3 Star.....	None.....	None.....	40436
"	15	"	"	40437	" " " " " " " "	6	Lake of the Woods Milling Co., Ltd.	Kewatin	"	"	40437
"	15	"	"	40438	" " " " " " " "	6	Ogilvie Flour Mills Co., Ltd	Glenora	0.36	1.8	40438
"	22	"	"	40439	McDonald & Robb, Valleyfield, 2 " .. P.Q.	6	Vendors.....	Our Best	None.....	None.....	40439
"	22	"	"	40440	" " " " " " " "	6	"	Red Horse Patent.....	"	"	40440
"	24	"	"	40441	J. B. Lefebvre, St. Therese de Blainville, P.Q.	7	.....	Canadian Bakers.....	"	"	40441

DISTRICT OF OTTAWA J. A. RICEY, INSPECTOR.

Mar.	1	Flour.....	42911	Pembroke Milling Co., Pembroke 2 lbs.	6	Vendors.....	Manitoba blend..	None.....	None.....	42911
"	1	"	42912	Jno. P. Millar & Sons, Pembroke 2 "	6	"	Bakers' Patent.....	"	"	42912
"	2	"	42913	Cameron Milling Co., Hawkesbury 2 "	6	Maple Leaf Flour Mills Co., Ltd., Kenora.	Nelson.....	"	"	42913
"	2	"	42914	D. Seward, Hawkesbury	6	Western Canada Flour Mills Co., Ltd., Goderich.	Purity.....	0.61	3.2	42914
"	2	"	42915	" " " " " " " "	6	Campbell & McNabb, Douglas ..	Rosbud	None.....	None.....	42915
"	4	"	42916	G. D. Atkinson, Cornwall.....	6	Vendor.....	Atkinsons' Special Hungarian.	"	"	42916
"	4	"	42917	Tilton & Graham, Cornwall ..	6	Hunt Bros., London, Ont.	Cabot.....	1.26	6.3	42917
"	4	"	42918	Black & Berthwick, Cornwall... 2 "	6	Quaker Oats Co., Peterboro.....	Quaker	None.....	None.....	42918
"	5	"	42919	J. W. McKay, Ottawa.....	6	Maple Leaf Flour Mills Co., Ltd., Kenora.	Quality	"	"	42919
"	8	"	42920	A. H. Mattice, Ottawa	6	The Ogilvie Flour Mills Co., Montreal.	Royal Household..	"	"	42920
"	8	"	42921	A. G. McCormick, Cornwall..... 2 "	6	Lake of the Woods Milling Co., Ltd., Kewatin.	Five Roses.....	"	"	42921
"	8	"	42922	Jno. L. Waite, Ottawa.....	6	Western Canada Flour Mills Co., Toronto.	Purity	0.1	0.5	42922
"	8	"	42923	W. A. Arnberg, Ottawa	6	Dowd Milling Co., Ltd., Packenhams.	Hungarian Patent	None.....	None.....	42923
"	8	"	42924	L. Rencaud, Ottawa.....	6	Wm. Scott & Co., Deschenes, P.Q.	White Clover.....	Trace.....	Trace.....	42924
"	8	"	42925	" " " " " " " "	6	"	Polar Star.....	None.....	None ..	42925

BULLETIN No. 206—FLOUR—(NITRITE REACTING NITROGEN IN).

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of the Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS		No. of Sample.
				Quantity.	Cents.			Nitrite re-acting Ni-trogen. Parts per million.	Calculated as Sodium Nitrite. Parts per million.	
DISTRICT OF KINGSTON—JAS. HOGAN, INSPECTOR.										
1910.										
Mar.	1 Flour.....	44206	W. P. Peters, Kingston...	2 lbs.	10	Lake of the Woods Milling Co...	.....	None.....	None.....	44206
"	"	44207	Geo. Gibson, Kingston.....	2 "	7	— Leitch, Oak Lake.....	.....	0.4	2.0	44207
"	"	44208	J. A. McFarland, Kingston....	2 "	6	Western Canada Flour Co.....	.....	0.2	1.0	44208
"	"	44209	Kingston Milling Co., Kingston	2 "	10	Vendors.....	.....	None.....	None.....	44209
"	"	44210	D. Hutchison, Kingston.....	2 "	10	Seaforth Milling Co.....	.....	Trace....	Trace....	44210
"	"	44211	C. Rathman, Belleville.....	2 "	10	Western Canada Flour Mills Co.	.....	0.2	1.0	44211
"	"	44212	Panter & Son, Belleville.....	2 "	8	Lake of the Woods Milling Co...	.....	None.....	None.....	44212
"	"	44213	A. Pakes, Belleville.....	2 "	10	Ogilvie Milling Co.....	.....	0.14	0.7	44213
"	"	44214	H. E. Fairfield, Belleville.....	2 "	10	Lake of the Woods Milling Co...	.....	None.....	None.....	44214
"	"	44215	E. A. Duncan, Cobourg...	2 "	10	Robin Hood.....	.....	0.24	1.2	44215
"	"	44216	Hoocy & Son, Cobourg.....	2 "	6	A. Pratt.....	.....	None....	None.....	44216
"	"	44217	J. Curtis, Port Hope.....	2 "	10	Lake of the Woods Milling Co...	.....	" .....	" .....	44217
"	"	44218	H. L. Burnham, Peterboro.....	2 "	10	Peterboro Cereal Co.....	.....	Trace....	Trace....	44218
"	"	44219	Roland Denne, Peterboro...	2 "	10	Quaker Oats Co., Peterboro. ....	.....	None.....	None.....	44219
"	"	44220	Savigny Bros., Peterboro.	2 "	10	Central Milling Co, Peterboro.	0.1	0.5	44220

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DISTRICT OF TORONTO—H. J. DAGER, INSPECTOR.

Mar.	2	Flour.....	41447	Wm. Elliott, Parliament st., Toronto.	2 lbs..	10	The Ogilvie Flour Mills Co., Ltd.	Patent Glengowan.....	Trace.....	Trace....	41447
"	3	"	41448	J. Haines, Dundas St. west, Toronto.	2 " ..	10	Western Canada Flour Mills Ltd. Toronto.	Purity.....	"	"	41448
"	4	"	41449	Cody & York, Newmarket.....	2 " ..	10	H. V. Denne & Co., Newmarket.	White Crown.....	None.....	None.....	41449
"	4	"	41450	W. S. Summerfeldt & Sons, Sutton.	2 " ..	10	Vendors.....	Regina.....	"	"	41450
"	4	"	41451	G. S. Baldwin, Aurora.....	2 " ..	10	Vendor.....	Hungarian.	"	"	41451
"	7	"	41452	The Wood Milling Co., Hamilton	2 " ..	10	Vendors.....	Gold Medal.....	"	"	41452
"	7	"	41453	Hamilton Milling Co., Hamilton	2 " ..	5	"	Peacemaker....	"	"	41453
"	8	"	41454	The Ker Milling Co., Dundas...	2 " ..	10	"	Thistledown....	"	"	41454
"	8	"	41455	W. Pringle & Son, Hamilton....	2 " ..	5	The Caledonia Milling Co., Ltd., Caledonia.	Bridal Veil.....	"	"	41455
"	9	"	41456	Thos. S. Morris, Hamilton.....	2 " ..	10	R. W. Smith, Jarvis.....	.....	" .....	" .....	41456
"	14	"	41457	Milton Flour Mills, Milton....	2 " ..	5	Vendor.....	.....	" .....	" .....	41457
"	15	"	41458	J. Black & Son, St. Catharines.	2 " ..	10	Vendors.....	Herald.....	"	"	41458
"	15	"	41459	The Hedley Shaw Milling Co., Ltd., St. Catharines.	2 " ..	6	"	Selkirk	"	"	41459
"	16	"	41460	Mouroe & Roantree, Thorold, Ont.	2 " ..	10	"	Perfect.....	"	"	41460
"	16	"	41461	H. J. Green, Niagara Falls	2 " ..	10	The John Campbell Co., Ltd., St. Thomas.	Sunbeam.....	0.8	4.0	41461

DISTRICT OF LONDON—T. KIDD, INSPECTOR.

Mar.	10	Flour.....	44717	James Hewer & Son, Guelph....	2 lbs..	10	James Goldie, Guelph.....	Snow Drift.....	1.8	9.0	44717
"	11	"	44722	Irvin Masters, Berlin.....	2 " ..	8	Vendor	King.....	Trace.....	Trace.....	44722
"	12	"	44725	Walsh Bros., Stratford.....	3 " ..	10	Faber Bros., Welsley.	Lily White.....	None.....	None.....	44725
"	15	"	44727	J. J. McEwen.....	2 " ..	10	Western Canada Flour Milling Co.	Purity.....	0.26	1.3	44727
"	18	"	44732	Chas. Andreos, Seaforth.....	2 " ..	10	Seaforth Milling Co., Seaforth...	Wave Crest.....	None.....	None	44732
"	18	"	44734	Cardino Bros., Seaforth.....	3 " ..	10	Lake of the Woods Milling Co., Winnipeg.	.....	" .....	" .....	44734

BULLETIN No. 206—FLOUR—(NITRITE REACTING NITROGEN IN).

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)	RESULTS OF ANALYSIS		No. of Sample.
				Quantity.	Cents.			Nitrite reacting Nitrogen. Parts per million.	Calculated as Sodium Nitrite. Parts per million.	
DISTRICT OF LONDON—T. KIDD, INSPECTOR—Concluded.										
1910.										
Apr. 11	Flour.....	44735	Wm. Stoneman, Mitchell.	2 lbs.	10	Stewart Bros., Mitchell.	Perth Standard.....	None.....	None.....	44735
" 12	"	44738	Vidier & Co.....	2 " ..	10	Goderich Milling Co., Goderich..	.....	0.4	2.0	44738
" 13	"	44739	Peter Dill, Dublin.....	2 " ..	10	Hunt Bros., London.....	.....	0.4	2.0	44739
" 13	"	44740	M. Klingham.....	2 " ..	10	Stewart Bros., Mitchell.....	.....	None.....	None.....	44740
" 14	"	44742	McCulley & Haugh, Stratford..	2 " ..	10	Ratz & Co., Tavistock.....	.....	0.4	2.0	44742
" 14	"	44743	W. B. Butcher, St. Marys.....	2 " ..	10	F. Carter & Co., St. Marys.....	.....	None.....	None.....	44743
" 19	"	44746	R. W. Wilson, Fergus.....	2 " ..	10	James Goldie & Co., Guelph.....	.....	0.4	2.0	44746
" 19	"	44747	Steel Bros., Fergus.....	2 " ..	10	Cargel & Son, Cargill.....	None.....	None.....	44747
" 21	"	44750	H. Wiltsee, Clinton.....	2 " ..	10	J. & V. Fair, Clinton.....	"	"	44750

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DISTRICT OF WINDSOR—JNO. TALBOT, INSPECTOR.										
Mar. 3	Flour.....	42506	Hookway & Son, London.	2 lbs.		H. Hamlyn, Lambeth.....	Hearty Delight.....	Trace.....	Trace.....	*42506
" 3	"	42507	Adams & Tauton, London	2 " ..	10	Hunt Milling Co., London....	Diamond	0.4	2.0	442507
" 4	"	42512	R. J. Wood, London.....	2 " ..	10	J. Hawkins, Arva	Hawkins Daisy.....	None.....	None.....	42512
" 4	"	42513	Gallis & Fleming, London....	2 " ..	10	Watford Milling Co., Watford ..	.....	Trace..	Trace.....	42513
" 4	"	42516	John Whiting, London.....	2 " ..	10	Hunt Milling Co., London.....	.....	None.....	None.....	42516
" 7	"	42524	Wm. Johnston, Saruia.....	2 " ..	10	Mustard & Son., Wyoming.....	Elderado.....	1.04	5.2	42524

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"	7	42526	Gardner Bros	2 "	10	Hayne Milling Co., Bryden	Hayne's best 3 points.	None	None	42526
"	7	42537	King Milling Co., Sarnia	3 "	"	Vendors	Bonney Doon	"	"	42537
"	8	42531	A. Scarsbrook, Petrolia	2 "	7	Eureka Roller Mills, Wyoming	Elderado	0.62	3.1	32531
"	8	42534	Geo. Prmsmer, Petrolia	2 "	7	W. W. Paling, Petrolia		None	None	32534
"	8	42535	Fred. Scarsbrook, Petrolia	2 "	6	J. Martyn Co., Alvinston	Our best	"	"	42535
"	9	42540	D. W. Newcombe, St. Thomas	2 "	5	Jas. Cullen, Woodstock	King Edward	0.54	2.7	42540
"	9	42541	"	2 "	5	Campbell Milling Co., St. Thomas	Sunbeam	Trace	Trace	*42541

DISTRICT OF MANITOBA—A. C. LARIVIERE, INSPECTOR.

Mar.	7	Flour	43416	Wm. Bowen, Minnedosa	3 lbs.	Nil	W. J. Lindsay & Co., Rapid City, Man.	Lindsay's Patent	None	None	43416
"	21	"	43417	Morden Roller Mills, Morden	3 "	"	Morden Roller Mills, Morden	Early Down	"	"	43417
"	28	"	43418	Western Canada Flour Mills Co., St. Boniface	3 "	"	Vendors	Purity	"	"	43418
"	28	"	43419	"	3 "	"	"	Three Stars	"	"	43419
"	29	"	43420	The Ogilvie Flour Mills Co., Ltd., Winnipeg	3 "	"	"	Royal Household	"	"	43420
"	29	"	43421	"	3 "	"	"	Glenora	"	"	43421
Apr.	7	"	43422	Geo. McCulloch & Sons, Souris	3 "	"	"	Ladies Choice	"	"	43422
"	8	"	43423	Western Canada Flour Mills Co., Brandon	3 "	"	"	Snow Drift	"	"	43423
"	8	"	43424	"	2 "	"	"	Lily	"	"	43424
"	8	"	43425	The Maple Leaf Flour Mills Co., Brandon	3 "	"	"	Hard Wheat	"	"	43425
"	8	"	43426	"	2 "	"	"	Castle	"	"	43426
"	8	"	43427	Lake of the Woods Milling Co., Portage La Prairie	3 "	"	"	Five Roses	"	"	43427
"	8	"	43428	"	2 "	"	"	Harvest Queen	"	"	43428
"	13	"	43429	Nichols, Hubbard & Brine, Vir- den	3 "	"	"	Sweet Home	0.1	0.5	43429
"	13	"	43430	Leitch Bros. Milling Co., Oak Lake	3 "	"	"	Sovereign	0.1	0.5	43430

* Smells of Turpentine.

† Smells of Turpentine strongly

BULLETIN No. 206—FLOUR—(NITRITE REACTING NITROGEN IN).

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS		No. of Sample.
				Quantity.	Cents.			Nitrite reacting Nitrogen. Parts per million.	Calculated as Sodium Nitrite. Parts per million.	
DISTRICT OF CALGARY R. W. FLETCHER, INSPECTOR.										
1910.										
Mar. 8	Flour.	35642	J. H. Morris & Co., Edmonton.	2 lbs.	10	Campbell & Otterwell, Edmonton	White Rose	0.1	0.5	35642
" 8	"	35643	Gilbert Berg, Edmonton.	2 "	10	Lake of the Woods Milling Co., Keewatin.	Five Roses.	None. . .	None. . . .	35643
" 8	"	35644	Hallier & Aldridge, Edmonton	2 "	10	Ogilvie, Winnipeg.	Royal Household.	"	"	35644
" 15	"	35645	Spencer & Todd, Medicine Hat. . . .	2 "	10	Lake of the Woods Milling Co. . . .	Five Roses.	0.1	0.5	35645
" 15	"	35646	L. B. Cochrane, Medicine Hat.	2 "	10	Med. Hat Milling Co.	Prairie Pride	None. . . .	None.	35646
" 22	"	35647	Hudson's Bay Co., Lethbridge.	2 "	10	Ogilvie, Winnipeg	Royal Household.	"	"	35647
" 22	"	35648	Bentley Co., Lethbridge.	2 "	10	Lake of the Woods Milling Co. . . .	Five Roses.	0.1	0.5. . .	35648
" 22	"	35649	MacDonald & Co., Lethbridge.	2 "	10	Taylor Milling Co., Lethbridge. . . .	Pride of Alberta.	None . . .	None. . . .	35649
" 22	"	35650	Geo. Kerr & Co., Lethbridge.	2 "	10	Ogilvie, Winnipeg.	Royal Household.	"	"	35650
" 22	"	35651	H. A. McKillop Co., Lethbridge	2 "	10	Taylor Milling Co., Lethbridge. . . .	Pride of Alberta	0.46	2.3	35651
" 29	"	35652	The Corner Grocery.	2 "	10	Calgary Milling Co.	Seal of Alberta.	1.06	5.3	35652
" 29	"	35653	Hallat & Longden	2 "	10	"	"	0.2	1.0	35653
" 29	"	35654	S. G. Freeze.	2 "	10	Western Milling Co., Calgary. . . .	Rising Sun.	None. . . .	None.	35654
" 29	"	35655	J. T. Macdonald.	2 "	10	Ogilvie's, Winnipeg	Royal Household.	"	"	35655
" 29	"	35656	Hudson's Bay Co.	2 "	10	Lake of the Woods Milling Co., Keewatin.	Five Roses.	"	"	35656

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DISTRICT OF VANCOUVER J. F. POWER, INSPECTOR.

14	Mar.	10	Flour.....	37813	Ideal Grocery, Vancouver, B.C.	2 lbs..	20	Lake of the Woods Milling Co.	5 Roses.	None.....	37813
13	"	10	"	37814	H. A. Edgett Co., Vancouver, B.C.	2 " ..	10	Unknown		"	37814
12	"	10	"	37815	Clark's Grocery, Vancouver, B.C.	2 " ..	10	Ogilvie Milling Co.	Economy.	"	37815
	"	10	"	37816	Duke's Grocery, Vancouver, B.C.	2 " ..	10	"	Royal Household.	"	37816
	"	10	"	37817	The White Grocery, Vancouver, B.C.	2 " ..	20	Saskatchewan Flour Mills Co., Ltd.	Robin Hood	0.24	37817
	"	10	"	37818	J. D. Miller, Vancouver, B.C.	2 " ..	10	Medicine Hat Milling Co.	Prairie Pride	None.....	37818
	"	10	"	37819	H. J. Parry.....	2 " ..	15	Allison Milling & Elevator Co.	Our Best	0.2	37819
	"	10	"	37820	A. & C. Grocery, Vancouver	2 " ..	15	Unknown		0.1	37820
	"	10	"	37821	McDowell Kinnis, Vancouver	2 " ..	10	Vancouver Milling Co.	Wild Rose	None.....	37821
	"	10	"	37822	J. McTaggart, Vancouver	2 " ..	10	Columbia Flour Mills	Premium	0.1	37822
	"	10	"	37823	Hudson's Bay Co., Vancouver	2 " ..	10	Hudson's Bay Co., Winnipeg.	Hudson's Bay Hungarian	None	37823
	"	11	"	37824	Timms & Mitchell, Vancouver	2 " ..	10	Hammond Milling Co., Seattle.	Queen Ann.	0.24	37824
	"	10	"	37825	Walford & Roney, Vancouver	2 " ..	10	Easterbrook Milling Co.	Imperial	None.....	37825
	"	10	"	37826	Wm. Crossman, Vancouver.	2 " ..	10	Columbia Mills, Ltd	Drifted Snow.	"	37826
	"	11	"	37827	W. H. Walsh, Vancouver.....	2 " ..	10	Western Canada Flour Mills	Purity	0.74	37827

DISTRICT OF VICTORIA—D. O'SULLIVAN, INSPECTOR.

Mar.	15	Flour.....	41634	Windsor Grocery Co., Victoria, B.C.	2 lbs..	10	Ogilvie Flouring Mills, Winnipeg, Man.	Royal Household	None.....	41634
"	16	"	41635	The Brackman Ker Milling Co., Ltd., Victoria, B.C.	2 " ..	8	Lake of the Woods Milling Co., Keewatin.	Five Roses	"	41635
"	16	"	41636	Saunders Grocery Co., Ltd., Victoria, B.C.	2 " ..	10	The Columbia Flouring Mills Co., Ltd., Enderby, B.C.	Drifted Snow	"	41636
"	16	"	41637	The Brackman Ker Milling Co., Ltd., Victoria, B.C.	2 " ..	8	"	Three Star	"	41637
"	16	"	41638	"	2 " ..	8	The Portland Flouring Mills Co., Albany, Orgn.	Snowflake	"	41638
"	16	"	41639	"	2 " ..	8	Western Canada Milling Co.	Purity	0.18	41639

BULLETIN No. 206—FLOUR—(NITRITE REACTING NITROGEN IN).

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS		No. of Sample.
				Quantity.	Cents.			Nitrite reacting Nitrogen. Parts per million.	Calculated as Sodium Nitrite. Parts per million.	

DISTRICT OF VICTORIA—D. O'SULLIVAN, INSPECTOR—Concluded.

1910.	16 Flour.....	41640	The Brackman Ker Milling Co., Ltd., Victoria, B.C.	2 lbs..	8	Medicine Hat Milling Co., Medicine Hat, Alta.	Prairie Pride Patent	None.....	None.....	41640
"	"	41641	"	2 " ..	8	Saskatchewan Milling Co., Moose-jaw, Sask.	Robin Hood.....	0.28	1.4	41641
"	"	41642	"	2 " ..	8	Calgary Milling Co., Calgary, Alta.	Hungarian Patent	0.1	0.5	41642
"	"	41643	"	2 " ..	8	Vancouver Milling & Grain Co., Vancouver, B.C.	Wild Rose.....	None.....	None.....	41643
"	"	41644	"	2 " ..	8	"	Royal Standard	"	"	41644
"	"	41645	"	2 " ..	8	Columbia Flouring Mills Co., Ltd., Enderby, B.C.	Moffet's Best.	"	"	41645
"	"	41646	Scott & Peden, Victoria, B.C....	2 " ..	5	Ellison Mills & Elevator Co., Ltd., Raymond, Alta.	Our Best No. 1 Hard Wheat.	0.6	3.0	41646
"	"	41647	Geo. N. Gowen, Victoria, B.C....	2 " ..	10	Calgary Milling Co., Calgary, Alta.	Seal of Alberta.....	0.52	2.7	41647
"	"	41648	Sylvester Feed Co., Victoria, B.C.	2 " ..	.....	Central Mills, Victoria, B.C.....	Whole Wheat.....	None.....	None.....	41648

APPENDIX B.

BULLETIN No. 207—BEEF, IRON AND WINE. (VINUM CARNIS ET FERRI.)

OTTAWA, May 10, 1910.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR,—The preparation known as Beef, Iron and Wine is not defined in either the British or the United States Pharmacopœias, nor does it occur in the Canadian Formulary. The United States National Formulary of unofficial preparations contains the following definition :—

445. *Vinum Carnis et Ferri.* *Wine of Beef and Iron.* *Beef, Wine and Iron.*

Extract of Beef, thirty-five grammes.....	:	35 gm.
Tincture of Citro-Chloride of Iron, 35 c.c.....		35 c.c.
Hot water, sixty cubic centimetres.....		60 c.c.
Sherry Wine, a sufficient quantity to make one thousand cubic centimetres.....		1,000 c.c.

Pour the hot water upon the Extract of Beef contained in a mortar or other suitable vessel, and triturate until a smooth mixture results. Then gradually add, while stirring, eight hundred (800) cubic centimetres of Sherry Wine. Next add the tincture and enough Sherry Wine to make one thousand (1,000) cubic centimetres. Transfer the mixture to a bottle, set this aside for a few days in a cold place, if convenient, filter, and pass enough Sherry Wine through the filter to restore the original value.

Each fluid drachm represents 2 grains of Extract of Beef, and 2 minims of Tincture of Citro-Chloride of Iron.

The Tincture of Citro-Chloride of Iron, named in the above formula, is itself an unofficial tincture, practically identical in content of iron with the official Tinctura Ferri Chloridi, U.S.P., which is somewhat weaker in iron than the Tinctura Ferri Perchloridi of the B.P. (Iron ratio: U.S.P., 4·7; B.P., 5·6.

The iron content of Vinum Carnis et Ferri would therefore be 0·188 per cent, expressed as Ferric Oxide.

The nitrogen in Extract of Beef does not represent proteid material, but is chiefly derived from amido-compounds, or so-called flesh bases. These are regarded as having rather a stimulant than a nutritive value, a matter which however need not be discussed here, since the object of the present investigation is rather to discover the variation of character of the article offered as Beef, Iron and Wine, than to indicate its therapeutic and nutritive value, a matter which must be decided by the physician. A report upon Extract of Beef was published in 1899, as Bulletin No. 63.

Apart from the Iron and Beef content, the only element of value in this article is the alcohol, representing the wine used in its preparation.

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It will be seen that among the 76 samples represented by the present collection, the three elements of value vary within extremely wide limits.

Total solids.....	from 7.20	to 26.22 per cent.
Nitrogen.....	" 0.002	" 0.322 "
Ash	" 0.180	" 1.488 "
Iron (Fe_2O_3).....	" 0.050	" 0.480 "
Alcohol.....	" 6.67	" 18.77 "

Total solids.—The material included under this heading is chiefly meat extractives, common salt, and the solid matters of the wine. In some cases meat fibre appears to have been added, giving a turbid appearance to the liquid when shaken up. Most of the preparations are however quite clear and contain no suspended (or deposited) matter, or but traces.

Nitrogen.—This is a measure of the so-called meat bases (amido compounds) in solution. The factor 3.12 is usually employed to convert nitrogen into this class of compounds, and *Vinum Carnis et Ferri* as found on the market, may apparently contain anywhere from 0.006 to 1.005 per cent (practically from none to 1 per cent) of meat bases. It must be left to the medical profession to say whether or not this is a satisfactory state of things.

Ash.—If from the ash we deduct the iron (as ferric oxide) the difference may be taken as common salt, together with the mineral matters natural to wine. These last may vary from about 0.12 to 0.45 (see Bulletin No. 38). So far as known they have no therapeutic importance.

Iron.—As already explained, the National Formulary of the United States, requires the presence of 0.188 per cent of iron (as Fe_2O_3). Doubtless the extended use of this preparation is largely due to a belief that it supplies iron to the body in an available form. Whether this is a fact or not, must be determined by the medical profession. It is certain that the great variation in amount of iron found in the commercial article of Beef, Iron and Wine, makes it a very uncertain vehicle for the administration of this drug.

Alcohol.—This component is introduced as wine. The extreme amounts found may be thus stated :—

Alcohol by weight.....	from 6.67	to 18.77 per cent.
Alcohol by volume.....	" 8.30	" 23.01 "
Equivalent proof spirit.....	" 14.60	" 40.32 "

I am unable to say whether or not this preparation is prescribed by the medical profession to any large extent. It is, however, quite certain that it obtains a large sale, and is popularly believed to possess valuable tonic properties.

The present report will, so far as it goes, enable those interested to know something of the character of Commercial Beef, Iron and Wine; and I beg to recommend its publication as Bulletin No. 207.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,
Chief Analyst.

BULLETIN No. 207—BEEF, IRON AND WINE.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.						No. of Sample.
				Quantity	Cents.			Total Solids.	Nitrogen.	Ash.	Iron (F ₂ O ₃)	Alcohol.		
													Grams per 100 c.c.	

DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.

1910.													
Mar. 9.	Beef, Iron and Wine	41926	Nat. Drug & Chem. Co., Halifax, N.S.	1 bot.	50	Vendors		23.36	0.055	0.780	0.085	12.30	41926
" 14.	"	41927	L. C. Gardner & Co., Yarmouth, N.S.	"	50	"		14.31	0.126	0.890	0.480	11.82	41927
" 14.	"	41928	B. F. Trask, Yarmouth, N.S.	"	75	Vendor		9.05	0.014	0.180	0.115	13.25	41928
" 16.	"	41929	H. F. Wilson, Windsor, N.S.	"	40	H. K. Wampole, Perth, Ont.		13.11	0.009	0.275	0.140	12.37	41929
" 16.	"	41930	R. B. Dakin, Windsor, N.S.	"	40	Toronto Pharmacal Co., Toronto, Ont.		9.49	0.055	0.330	0.165	12.26	41930

DISTRICT OF PRINCE EDWARD ISLAND—THEO. MOORE, INSPECTOR.

Mar. 5.	Beef, Iron and Wine	38656	Johnson & Johnson, Charlottetown.	1 pt.	100	Druggists Corporation of Canada, Toronto.		11.74	0.002	0.620	0.260	13.09	38656
" 5.	"	38657	E. Keir, Kensington ...	"	75	H. K. Wampole, Perth, Ont.	Ext. of Beef, Ammon- ium, citrate of iron and wine.	17.52	0.038	0.290	0.115	12.85	38657
" 10.	"	38658	C. E. McDonald, Sum- merside.	"	100	Gibson Howell & Co., Philadelphia, Pa.		15.24	0.038	0.235	0.110	13.61	38658
" 15.	"	38659	J. C. Ferguson, Souris...	3½ "	120	W. K. Wampole, Toronto		17.79	0.042	0.270	0.135	12.41	38659
" 15.	"	38660	Dr. A. A. McDonald, Souris.	1 "	75	E. B. Shuttleworth Chem. Co., Toronto.		15.60	0.042	0.535	0.365	9.48	38660

DISTRICT OF NEW BRUNSWICK—J. C. FERGUSON, INSPECTOR.

Mar. 4.	Beef, Iron and Wine	39670	Nat. Drug & Chem. Co., Ltd., St. John, N.B.	1 bot.	85	Vendors ..	8.82	0.101	0.530	0.140	12.37	39670
" 10.	"	39671	The Canadian Drug Co., Ltd., St. John, N.B.	3 bots.	60	"	10.46	0.020	0.305	0.075	15.10	39671
" 15.	"	39672	Arthur J. Ryan, Fred- erick, N.B.	"	85	H. K. Wampole & Co., Perth, Ont.	17.97	0.027	0.260	0.135	11.94	39672
" 16.	"	39673	The Baird Co., Ltd., Woodstock, N.S.	"	88	Vendors	9.84	0.308	0.200	0.155	11.94	39673
Apr. 7.	"	39674	A. E. Shaw, Newcastle, N.B.	"	50	Lyman Sons & Co., Mon- treal.	19.73	0.071	0.440	0.080	11.11	39674

DISTRICT OF QUEBEC—E. BELAND, INSPECTOR.

Mar. 7.	Beef, Iron and Wine	36538	C. Belanger, 102 Rue du Pont.	3 bots.	180	W. Brunet & Cie, Quebec	18.30	0.157	1.125	0.390	13.53	36538
" 8.	"	36539	C. O. Simard, 8 Rue St. Jean.	"	180	Armour Ltd., Toronto	17.95	0.132	1.488	0.210	15.55	36539
" 8.	"	36540	F. Gauvreaux, 336 Rue St. Jean.	"	150	Unknown	7.50	0.210	0.670	0.225	15.55	36540
" 8.	"	36541	F. Gauvreaux, 336 Rue St. Jean.	"	225	"	11.01	0.102	0.670	0.155	15.63	36541
" 8.	"	36542	A. Jolicoeur, 338 Rue St. Jean.	"	300	Lymans Ltd., Montreal	11.35	0.102	0.670	0.135	15.31	36542

DISTRICT OF ST. HYACINTHE—J. C. ROULEAU, INSPECTOR.

Mar. 3.	Beef, Iron and Wine	1291	Hill & Dépatie, St. Armand.	3 bots.	150	Dunlop Pharmaceutical Co., Montreal.	20.29	0.060	0.450	0.260	15.39	1291
" 7.	"	1292	P. A. Berard, Drum- mondville.	"	225	Nat. Drug & Chem. Co., Montreal.	10.11	0.179	0.640	0.175	13.81	1292
" 8.	"	1293	L. A. D. Houde, Nicolet.	"	225	The Chapman Dart Co., Montreal.	26.22	0.137	1.260	0.175	6.87	1293
" 8.	"	1294	J. R. Dubé, Becancour.	"	225	Davis & Lawrence Co., Montreal.	14.87	0.116	1.090	0.050	13.41	1294
" 17.	"	1295	Wright & Co., St. Jean.	24 oz.	100	Jno. Wyeth & Bro., Philadelphia.	11.27	0.125	0.390	0.110	12.85	1295

BULLETIN No. 207—BEEF IRON AND WINE.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Fur- nisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)	RESULTS OF ANALYSIS.					
				Quantity.	Cents.			Grams per 100 c.c.					
								Total Solids.	Nitrogen.	Ash.	Iron (Fe ₂ O ₃).	Alcohol.	No. of Sample.

DISTRICT OF MONTREAL—J. J. COSTIGAN, INSPECTOR.

1910.												
Mar. 2.	Beef, Iron and Wine	40412	Chas. E. Frost & Co., 3 bots. Lagauchetiere st. west, Montreal.	88	Vendors	21.61	0.061	0.385	0.115	13.49	40412	
" 3.	"	40413	Quenneville & Guerin, 1 bot. 397 St Antoine st. west Montreal.	75	Franks Mfg. Co., Mon- treal.	18.18	0.056	0.410	0.255	13.01	40413	
" 8.	"	40414	B. Fox, 168 St. Lawrence st. west, Montreal.	100	Nyalls.	9.95	0.239	0.610	0.065	11.60	40414	
" 9.	"	40415	Dr. E. N. Fournier, St. Jerome, P.Q.	100	Nat. Drug & Chem. Co., Ltd., Montreal.	9.46	0.120	0.550	0.160	13.41	40415	
" 16.	"	40416	J. Weinfeld, 458 St. Lawrence st., Montreal	50	Parke Davis & Co.	15.25	0.021	0.375	0.070	6.67	40416	

DISTRICT OF OTTAWA—J. A. RICEY, INSPECTOR.

Mar. 1.	Beef, Iron and Wine	42931	W. R. Wallace, Pen-1 bot. broke.		100	F. Stearns & Co., Detroit	16.99	0.200	0.535	0.060	12.61	42931
" 2.	"	42932	W m. A. M cC r e a , Hawkesbury.	"	85	Toronto Pharmaceutical Co., Ltd., Toronto.	9.23	0.045	0.320	0.105	11.71	42932
" 4.	"	42933	C. A. McHattie, Corn- wall.	"	100	Lymans Ltd., Montreal	11.42	0.080	0.760	0.150	15.39	42933
" 9.	"	42934	Bryson Graham, Ltd., 3 bots. Ottawa.		165	The Toronto Drug Co., Ltd., Toronto.	11.94	0.075	0.155	0.245	9.92	42934
" 11.	"	42935	Birtch Bros., Richmond, 1 bot. Ont.		80	Northrop & Lyman's Co., Ltd., Toronto.	17.57	0.059	0.360	0.325	15.87	42935
" 11.	"	42941	Brown Bros., Richmond, 3 bots. Ont.		150	The T. Milburn Co., Ltd., Toronto.	22.78	0.080	0.475	0.320	12.87	42941

DISTRICT OF KINGSTON—JAS. HOGAN, INSPECTOR.

Mar. 1.	Beef, Iron and Wine	44241	F. Hoag, Kingston	3 bots.	300 J. Wyeth & Bro., Philadelphia.	11.02	0.121	0.570	0.125	15.79	44241
" 1.	"	44242	J. McLeod, Kingston	"	300 J. Wyeth & Bro., Philadelphia.	12.12	0.152	0.675	0.120	15.79	44242
" 1.	"	44243	A. P. Chown, Kingston	"	150 Parke Davis & Co., Walkerville.	23.00	0.224	1.315	0.225	13.17	44243
" 1	"	44244	National Drug Co., Kingston.	"	180 Armour, Toronto	18.37	0.121	0.890	0.200	12.53	44244
" 1.	"	44245	W. W. Gibson, Kingston	"	150 Armour, Toronto.	8.35	0.059	0.616	0.085	12.69	44245

DISTRICT OF TORONTO—H. J. DAGER, INSPECTOR.

Mar. 2.	Beef, Iron and Wine	41482	L. C. Armstrong, 822 Queen st. e., Toronto.	1 bot.	50 The Dominion Drug Co., Ltd., Hamilton.	10.77	0.081	0.410	0.165	13.41	41482
" 3.	"	41483	Chas. J. Stoddard, 178-183 Dundas st. w., Toronto.	1 "	50 Vendor	13.24	0.238	0.710	0.165	9.43	41483
" 4	"	41484	J. R. Y. Broughton, Newmarket.	1 "	60 "	19.93	0.031	0.840	0.185	12.57	41484
" 8.	"	41485	Arthur Boyle, York st., Hamilton.	1 "	55 The Toronto Pharmacal Co., Toronto.	9.02	0.060	0.215	0.175	14.20	41485
" 15.	"	41486	R. E. Reynolds, 154 James st. n., Hamilton.	1 "	40 "	8.67	0.004	0.315	0.200	11.86	41486

DISTRICT OF LONDON—T. KIDD, INSPECTOR.

Mar. 16.	Beef, Iron and Wine	44716	A. B. Petrie, Guelph	3 bots.	225 Lyman Bros., Toronto	11.20	0.108	0.405	0.105	14.28	44716
" 11.	"	44723	J. H. Schmidt, Berlin	3 "	175 National Drug Co., Hamilton.	7.20	0.098	0.555	0.085	9.21	44723
" 15.	"	44729	S. E. Hicks, Goderich	3 "	150 F. Stearns & Co., Windsor.	16.75	0.171	1.070	0.275	13.65	44729
" 21.	"	44751	Mr. Robb, Clinton	1 bot.	75 Druggists Corporation of Canada, Ltd.	11.20	0.205	0.585	0.255	12.02	44751

BULLETIN No. 207—BEEF, IRON AND WINE.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Fur- nisher, as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)	RESULTS OF ANALYSIS.					
				Quantity.	Cents.			Grams per 100 c.c.					
								Total Solids.	Nitrogen.	Ash.	Iron (Fe ₂ O ₃).	Alcohol.	No. of Sample.

DISTRICT OF WINDSOR—JNO. TALBOT, INSPECTOR.

1910	Beef, Iron and Wine	42509	N. W. Emerson, London	1 bot.	50	National Drug Co., London, Ont.	9.12	0.112	0.490	0.135	14.35	42509
Mar. 3.	"	42520	P. J. McGibbon, Sarnia.	1 "	100	John Wyeth & Bro	13.01	0.105	0.670	0.110	16.03	42520
" 7.	"	42529	G. G. Ingersoll, Sarnia.	1 "	100	Fred. Stearns & Co., Windsor, Ont.	14.24	0.227	0.630	0.335	13.65	42529
" 7.	"	42533	Geo. Denham, Petrolia.	1 "	75	Druggists Corporation of Canada, Toronto.	11.92	0.322	0.415	0.329	7.96	42533
" 8.	"	42539	E. C. Harvey, St. Thomas	1 "	75	Vendor	10.36	0.150	0.685	0.085	10.27	42539
" 9.	"											

DISTRICT OF MANITOBA—A. C. LARIVIERE, INSPECTOR.

Mar. 18.	Beef, Iron and Wine	43411	Norman B. Henry, Glenboro.	16 oz.	75	Parke, Davis & Co., Walkerville, Ont.	23.17	0.245	1.470	0.180	11.86	43411
" 21.	"	43412	R. D. Bruce, Morden	2 bots.	200	Toronto Pharmacal, Ltd., Winnipeg.	8.89	0.076	0.830	0.135	12.69	43412
" 21.	"	43413	W. Collins & Co., Morden.	2 "	200	H. S. Millar, M.D., New York.	17.05	0.045	0.260	0.100	13.78	43413
" 22.	"	43414	The Central Drug Co., McGregor, Man.	2 "	200	National Drug and Chemical Co., Ltd.	10.69	0.113	0.410	0.320	14.11	43414
" 23.	"	43415	P. F. Braund, Winnipeg.	2 "	150	John Wyeth & Bro., Philadelphia.	13.93	0.091	0.475	0.200	13.78	43415
" 24.	"	35897	The Gordon Mitchell Drug Co., Winnipeg.	24 oz.	125	Vendors	8.25	0.053	0.225	0.210	18.77	35897

DISTRICT OF CALGARY—R. W. FLETCHER, INSPECTOR.

Mar. 8.	Beef, Iron and Wine	35667	The Edmonton Drug Co., Edmonton.	12 oz..	100	Canadian Drug Syndi- cate, London, Ont.	.....	9.49	0.112	0.600	0.365	11.71	35667
" 8.	"	35668	A. Archibald, Edmonton	12 "	100	John Wyeth & Bro., Philadelphia, Pa.	.....	10.61	0.084	0.330	0.100	14.20	35668
" 8.	"	35669	Macdonald's Pharmacy, Edmonton.	12 "	75	Parke Davis, Walker- ville, Ont.	.....	17.83	0.112	0.400	0.155	10.95	35669
" 15.	"	35670	C. S. Pringle, Medicine Hat.	12 "	175	Stearns & Co., Windsor, Ont.	.....	12.26	0.275	0.800	0.180	12.57	35670
" 15.	"	35671	E. M. Cawker, Medicine Hat.	12 "	175	Parke Davis, Walker- ville.	.....	17.52	0.063	0.365	0.675	15.00	35671

DISTRICT OF VANCOUVER—J. F. POWER, INSPECTOR.

Mar. 14.	Beef Iron and Wine	37848	Manhattan Pharmacy, Vancouver, B.C.	3 pts..	300	National Drug and Chem- ical Co.	.....	19.96	0.105	0.505	0.160	15.23	37848
" 14.	"	37849	City Drug Store, Van- couver, B.C.	3 "	300	Davis & Lawrence Co., Montreal.	...	19.29	0.095	0.615	0.130	14.92	37849
" 14.	"	37850	W. Harrison & Co., Van- couver, B.C.	3 "	300	Vendors.....	.....	16.87	0.046	0.265	0.100	12.83	37850
" 14.	"	37851	Capitola Drug Store, Vancouver, B.C.	3 "	300	Gibson, Howell & Co., Philadelphia.	..	16.56	0.037	0.250	0.135	12.26	37851
" 14.	"	37852	Georgia Pharmacy, Van- couver, B.C.	3 "	300	Jno. Wyeth & Bro., Montreal.	.....	11.49	0.101	0.335	0.120	14.92	37852

DISTRICT OF VICTORIA D. O'SULLIVAN, INSPECTOR.

Mar. 18	Beef, Iron and Wine	41659	F. J. Williams, Victoria, B.C.	1 bot.	100	Parke, Davis & Co., Walkerville, Ont.	.....	17.66	0.063	0.455	0.055	11.27	41659
" 18.	"	41660	W. S. Terry, Victoria, B.C.	1 "	100	Vendor.....	.....	9.96	0.122	0.565	0.435	12.61	41660
" 18.	"	41661	Hall & Co., Victoria, B.C.	1 "	100	Jno. Wyeth & Bro., Philadelphia.	..	11.78	0.198	0.555	0.065	15.95	41661
" 18.	"	41662	Wm. Jackson & Co., Victoria, B.C.	1 "	100	Dominion Drug Co., Hamilton.	....	10.30	0.074	0.210	0.065	14.84	41662
" 18.	"	41663	Geo. A. Fraser, Victoria, B.C.	1 "	100	Vendor.....	.....	16.75	0.046	0.365	0.150	12.93	41663

APPENDIX C.

BULLETIN No. 208—CONDENSED AND EVAPORATED MILK.

OTTAWA, May 26, 1910.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR,—I have the honour to hand you herewith a report upon 154 samples purchased as Condensed and Evaporated Milk, throughout the Dominion, in March of this year.

Details of the collection are as follows :—

Condensed Milk.....	104 samples	}	Analysed.
Evaporated Milk.....	45 do		
Milk Food (Collected by mistake)....	3 do	}	Not do
Spoiled samples	2 do		

Further details as to vendor, manufacturer, and percentage results of analysis are given in Table I. Table II gives a synopsis of the results obtained with samples of the same brand, for evaporated (unsweetened) milks, the different brands being arranged in alphabetic order. Table III does the same for the condensed (sweetened) milks.

The last examination of Condensed Milk was reported in Bulletin 144 (January 1908). It represented 142 samples, classified thus :—

Evaporated Milk.....	47 samples.
Condensed Milk.....	95 do

These names being applied respectively to the non-sugared, and sugared products. Nine brands of Evaporated (unsugared) Milk were represented of which brands only four (4) are found in the present collection The following comparison of these brands is of interest :—

EVAPORATED MILK.

Brand.	Inspection of 1908.		Inspection of 1910.	
	Number of Samples.	Mean fat.	Number of Samples.	Mean fat.
Carnation.....	1	6·93	2	6·74
Jersey Cream.	8	8·08	11	7·27
Peerless.....	11	6·50	6	6·70
St. Charles.	16	7·10	12	6·94

2 GEORGE V., A. 1912

Nineteen brands of Condensed (sugared) Milk appear in the collection of 1908, of which twelve (12) are found in the present collection, as follows :—

Brand.	Inspection of 1908.		Inspection of 1910.	
	Number of Samples.	Mean fat.	Number of Samples.	Mean fat.
Challenge	3	7·37	10	7·83
Clover.....	9	7·91	4	7·27
Eagle.....	12	8·00	13	7·85
Gold Seal.....	11	7·33	3	7·60
Good Luck.....	4	7·73	1	7·06
Lion.....	1	7·62	1	8·92
Nestle's (England).	3	7·87	13	8·27
Oak.....	6	8·51	1	8·42
Pheasant.....	2	5·10	4	4·35
Purity	1	7·87	1	7·64
Reindeer.	20	8·61	12	7·97
Silver Cow	11	7·64	9	7·98

An inspection of these tables shows that considerable care is taken in the manufacture of concentrated milk. In most cases the difference in fat value between the averages for 1908 and 1910 is less than one-half of one per cent ; and with a legalized standard to be met, it is reasonable to believe that future inspections of this article will show still more constancy and uniformity in the output.

Attention has more than once been called to the misuse of the term *Cream* in naming unsweetened condensed milk. The word *Cream* has a perfectly definite and well understood signification, and is legally defined as follows : ‘ Cream is that portion of milk, rich in milk fat, which rises to the surface of milk on standing, or is separated from it by centrifugal force, is fresh and clean, and contains (unless otherwise specified), not less than eighteen (18) per cent of milk fat.’

It is manifestly misleading to apply such a term to the article tabulated in Table II. Such an article is more truly described as *Evaporated Milk*, and is defined for purposes of the Act as follows: ‘ Evaporated Milk is milk from which a considerable portion of water has been evaporated, and contains not less than 26 per cent of milk solids, and not less than 7·20 per cent of milk fat.’

Evaporated Milk is quantitatively defined in terms of Total Milk Solids, and Milk Fat.

The mean results of the nine brands of Table II appear as follows :—

EVAPORATED MILK.

Name of Brand.	Total Solids		Milk Fat	
	Found.	Below Standard.	Found.	Below Standard.
B. C.....	25·29	0·71	5·92	1·23
Canada First	29·02	above	7·52	above
Carnation.....	23·86	2·14	6·74	0·46
Empress	30·20	above	8·12	above
Imperial.	22·04	3·96	5·64	1·56
Jersey Cream	27·47	above	7·27	above
Libby's	24·64	1·34	6·00	1·20
Peerless	26·97	above	6·70	0·50
St. Charles.. . . .	26·64	above	6·94	0·26

The standards in question have been adopted after very careful study of the subject, and the fact that they are fully met by three brands, and are met within one half of one per cent of fat by six brands proves that the requirements are reasonable.

SESSIONAL PAPER No. 14

For Condensed (sugared) Milks the corresponding standard limits are 28 per cent of milk solids, and 7·7 per cent of fat. Of these two requirements, quite the more important is the fat percentage. Exact determinations of milk solids are interfered with, and rendered difficult by the presence of added cane sugar, which is more or less changed in character during the processing. The following synopsis of mean results, as found in Table III, gives the fat content at a glance.

Name of Brand.	Fat found.	Above Standard.	Below Standard.
Anchor	8·28	0·58	—
Banner	5·96	—	1·74
Beaver	7·56	—	0·14
Canadian	8·16	0·46	—
Canada First	7·74	0·04	—
Challenge	7·83	0·13	—
Clover	7·27	—	0·43
Eagle	7·85	0·15	—
Emery's	7·64	—	0·06
Gold Seal	7·60	—	0·10
Good Luck	7·06	—	0·64
Lion	8·92	1·22	—
Nestle's (England)	8·27	0·57	—
" (Norway)	8·69	0·99	—
" (Switzerland)	8·94	1·24	—
Oak	8·42	0·72	—
Pheasant	4·35	—	2·35
Princess	5·40	—	2·30
Purity	7·64	—	0·06
Red Cow	0·60	—	7·10
Reindeer	7·97	0·27	—
Royal	4·60	—	3·10
Silver Cow	7·98	0·28	—
Sweet's Pride	8·28	0·58	—
White Star	7·96	0·26	—

It will be seen that 12 brands, out of 23 tabulated, reach the required standard for fat, while five others come within one half of one per cent of its requirements. Of the remaining brands some are professedly manufactured from skimmed milk. This finding would therefore seem to support the reasonableness of our standards, as regards milk fat content for Condensed Milk. For the information of those interested in milk and its products the latest revision of proposed standards is printed as an appendix to this report.

I beg to recommend the publication of this report as Bulletin No. 208.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,
Chief Analyst.

TABLE I.—CONDENSED AND

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.
				Quantity.	Cents.	

DISTRICT OF NOVA SCOTIA—

1910.						
Mar.	7	Evaporated Cream..	41916 Dillon Bros., Halifax, N.S.	3 cans	45	Aylmer Canning Co., Aylmer, Ont.
"	7	"	41917 W. E. Crowe & Co., Halifax, N.S.	3 "	45	Borden's Condensed Milk Co., New York.
"	7	"	41918 Share & Campbell, Halifax, N.S.	3 "	45	Truro Condensed Milk Co., Truro, N.S.
"	8	"	41919 W. J. Hopgood & Son, Halifax, N.S.	3 "	45	St. Charles Condensing Co., St. Charles, Ill.
"	11	Condensed Milk	41920 Taylor Drug Co., Bridge-water, N.S.	3 "	75	H. Nestle, Switzerland.....
"	8	"	41921 J. L. Archibald & Son, Halifax, N.S.	3 "	54	Truro Condensed Milk Co., Truro, N.S.
"	8	"	41922 City Provision Co., Halifax, N.S.	3 "	30	Canada Milk Condensing Co., Antigonish, N.S.
"	8	"	41923 E. Donahoe & Son, Halifax, N.S.	3 "	36	Truro Condensed Milk Co., Truro, N.S.
"	8	"	41924 S. T. Craig, Halifax, N.S.	3 "	30	Canada Milk Condensing Co., Antigonish, N.S.
"	8	"	41925 E. B. Tracey, Halifax, N.S.	3 "	36	Sweet Milk Condensing Co., Laurentides, Que.

DISTRICT OF PRINCE EDWARD ISLAND—

Mar.	5	Condensed Milk	38646 Johnson & Johnson, Charlottetown.	3 tins.	75	Henri Nestle, Vevey, Switzerland.
"	9	"	38647 J. A. Hynes, Kensington.	3 "	60	Charlottetown Condensed Milk Co., Charlottetown.
"	10	"	38648 R. T. Holman, Ltd., Summerside.	3 "	30	Aylmer Condensed Milk Co., Aylmer, Ont.
"	10	"	38649 T. N. Enman, Summerside	3 "	75	Henri Nestle, Vevey, Switzerland.
"	10	Condensed Cream...	38650 Brace & McKay, Summerside.	3 "	36	Truro Condensed Milk Co., Truro, N.S.
"	10	" Milk.....	38651 F. W. Strong, Summerside	3 "	42	Aylmer Condensed Milk Co., Aylmer, Ont.
"	10	" Cream...	38652 A. W. P. Gourlie, Summerside.	3 "	60	.....
"	15	" Milk...	38653 Sterns Bros., Souris.....	3 "	36	Borden Condensed Milk Co., Tillsonburg, Ont.
"	17	"	38654 McDonald & McKinnon, Charlottetown.	3 "	75	Henri Nestle, Vevey, Switzerland.
"	17	"	38655 Sanderson & Co., Charlottetown.	3 "	45	Charlottetown Condensed Milk Co., Charlottetown.

SESSIONAL PAPER No. 14

EVAPORATED MILK (OR CREAM).

Inspector's Report (Is not an expres- sion of opinion).	RESULTS OF ANALYSIS.								Remarks and Opinion of the Chief Analyst.	
	Density.	Water.	Total Solids.	Ash.	Fat.	Milk Sugar.	Loss to 500 cc Warm Water.	Calculated on 9 per cent basis.		
								Concen- tration.		Fat in original bulk.
									No. of Sample.	

R. J. WAUGH, INSPECTOR.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	
Canada First	1·0750	72·92	27·08	1·46	6·68	10·78	.....	2·37	2·95	41916
Peerless	1·0721	74·00	26·00	1·68	6·56	10·51	.....	2·25	3·04	41917
Jersey Cream.....	1·0757	72·76	27·24	1·74	6·88	10·53	.....	2·36	3·04	41918
St. Charles	1·0700	74·04	25·96	1·44	6·84	9·85	.....	2·21	3·22	41919
.....	1·3186	26·44	73·56	1·62	8·92	.....	54·16	.....	.....	41920
Reindeer	1·3298	27·00	73·00	1·86	7·36	.....	55·96	.....	.....	41921
Red Cow..	1·3455	32·24	67·76	1·92	0·60	.....	56·36	.....	.....	41922
Clover	1·3116	31·04	68·96	1·54	7·00	.....	53·40	.....	.....	41923
Royal..	1·3298	29·52	70·48	1·76	4·60	.....	55·00	.....	.....	41924
Sweet's Pride.	1·3183	27·28	72·72	1·82	8·28	.....	54·80	.....	.....	41925

THEO. MOORE, INSPECTOR.

.....	1·3138	27·32	72·68	1·88	9·08	.....	52·52	.....	.....	38646
Lion.	1·2920	29·96	70·04	1·54	8·92	.....	50·68	.....	.....	38647
Beaver	1·3158	28·80	71·20	1·62	7·56	.....	54·16	.....	.....	38648
.....	1·3276	26·24	73·76	1·98	7·60	.....	55·68	.....	.....	38649
Reindeer	1·0736	73·16	26·84	1·56	6·92	10·00	.....	2·31	3·13	38650
Canada First	1·3165	28·48	71·52	1·72	7·48	.....	55·00	.....	.....	38651
St. Charles	1·0728	72·48	27·52	1·44	7·00	10·01	.....	2·37	3·07	38652
Challenge.....	1·3242	26·20	73·80	1·74	8·28	.....	55·52	.....	.....	38653
.....	1·3206	27·04	72·96	1·86	8·48	.....	53·76	.....	.....	38654
Oak.....	1·3090	28·24	71·76	1·82	8·42	.....	53·36	.....	.....	38655

2 GEORGE V., A. 1912

TABLE I.—CONDENSED AND

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.
				Quantity.	Cents.	

DISTRICT OF NEW BRUNSWICK—

1910.							
Mar.	7	Evaporated Cream...	39660	Dearborn & Co., St. John, N.B.	3 tins.	45	Aylmer Condensed Milk Co. Aylmer, Ont.
"	7	Condensed Milk	39661	Baird & Peters, St. John, N.B.	3 "	38	Borden's Condensed Milk Co., New York.
"	10	"	39662	H. W. Cole Co., Ltd., St. John, N.B.	3 "	35	The Truro Condensed Milk Co., Ltd., Truro, N.S.
"	15	"	39663	G. T. Whelpley Estate, Fredericton, N.B.	3 "	45	The St. Chas. Condensing Co., Ingersoll.
"	16	"	39664	J. Rankine Brown, Woodstock, N.B.	3 "	54	Truro Condensed Milk Co. Ltd., Truro, N.S.
"	17	Evaporated Cream...	39665	D.R. Bedell, Andover, N.B.	3 "	36	St. Charles Condensing Co. Ingersoll, Ont.
"	18	Condensed Milk	39666	Geo. T. Baird Co., Ltd., Perth, N.B.	3 "	45	Aylmer Condensed Milk Co. Aylmer, Ont.
April	1	Evaporated Cream ..	39667	Walter Gilbert, St. John, N.B.	3 "	15	Borden's Condensed Milk Co., New York.
"	6	Condensed Milk	39668	Reed Co., Ltd., Moncton, N.B.	3 "	30	Canada Condensed Milk Co. Ltd., Antigonish, N.S.
Mar.	9	Jersey Cream.	39669	G. E. Barbour Co., Ltd., St. John, N.B.	3 "	25	The Truro Condensed Milk Co., Truro, N.S.

DISTRICT OF QUEBEC

Mar.	4	Condensed Milk	36528	W. Brunet & Cie, 139 Rue St. Joseph, Que.	3 tins.	45	Leeming Miles Co., Montreal
"	4	"	36529	" " " " " "	3 "	45	" " " "
"	4	"	36530	" " " " " "	3 "	45	" " " "
"	4	"	36531	T. E. Livernois, St. Jean & Bouillard.	3 "	45	" " " "
"	4	"	36532	" " " " " "	3 "	45	" " " "
"	4	"	36533	A. Rinfret, 414 Rue St. Joseph, Que.	3 "	45	Langlois & Paradis, Quebec..
"	4	"	36534	O. Bacon, 28 Rue Hermine, Que.	3 "	45	Bedard & frere, Quebec.....
"	4	"	36535	E. Robitail, 48 Rue Victoria, Que.	3 "	45	Langlois & Paradis, Quebec..
"	7	"	36536	O. Lacroix, 19 Rue St. Joseph, Que.	3 "	45	Turcot & frere, Quebec.....
"	7	"	36537	" " " " " "	3 "	30	T. B. Reneaud & Cie, Quebec

DISTRICT OF ST. HYACINTHE—

Mar.	3	Condensed Milk	1279	D. H. Conner, Bedford . . .	3 tins.	45	Mathewson's Sons, Montreal
"	7	"	1280	D. Hebert, Drummondville	3 "	45	St. Chas. Condensing Co., Ingersoll, Ont.
"	7	"	1281	P. Lambert, Daveluyville..	3 "	45	.....
"	8	"	1282	J. O. T. Dufresnes, Nicolet	3 "	38	Aylmer Condensed Milk Co., Aylmer, Ont.

SESSIONAL PAPER No. 14

EVAPORATED MILK (OR CREAM).

Inspector's Report (Is not an expres- sion of opinion).	RESULTS OF ANALYSIS.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Density.	Water.	Total Solids.	Ash.	Fat.	Milk Sugar.	Loss to 500 cc Warm Water.	Calculated on 9 per cent basis.		
								Concen- tration. t in original bulk.		

J. C. FERGUSON, INSPECTOR.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	
Canada First: . . .	1·0845	69·60	30·40	1·86	7·56	12·19	.....	2·67	2·98	39660
Eagle.....	1·3242	27·12	72·88	1·54	7·80	.....	55·72	.....	.....	39661
Reindeer	1·3263	26·96	73·04	1·86	7·60	...	56·00	.....	.....	39662
Purity.....	1·3220	27·32	72·68	1·62	7·64	.....	55·28	.....	.....	39663
Clover.....	1·3130	29·24	70·76	1·56	7·16	.....	54·80	.....	.....	39664
St. Charles. . . .	1·0761	72·32	27·68	1·58	6·68	10·67	.....	2·44	2·86	39665
Canada First.	1·3131	28·16	71·84	1·82	8·12	.....	53·64	.....	.....	39666
Peerless	1·0780	72·16	27·84	1·54	6·92	10·33	.....	2·43	2·98	39667
Pheasant.....	1·3206	31·68	68·32	1·76	5·04	...	53·36	.....	.....	39668
Jersey Cream.....	1·0727	72·56	27·44	1·74	6·76	10·30	.....	2·39	2·94	39669

E. BELAND, INSPECTOR.

.....	1·3144	26·44	73·56	1·60	9·04	.....	54·52	.....	.....	36528
.....	1·3270	27·36	72·64	1·76	8·48	...	54·68	.....	.....	36529
.....	1·3193	27·08	72·92	1·66	8·52	...	55·32	.....	.....	36530
.....	1·3200	27·24	72·76	1·76	8·28	.....	54·44	.....	.....	36531
.....	1·3179	26·56	73·44	1·78	9·38	.....	54·52	.....	.....	36532
.....	1·3116	27·88	72·12	1·66	8·74	.....	53·00	.....	.....	36533
.....	1·3291	26·64	73·36	1·72	7·28	...	57·20	...	.....	36534
.....	1·3014	28·04	71·96	1·56	6·96	.....	55·32	.....	.....	36535
.....	1·0783	71·64	28·36	1·70	6·96	10·99	...	2·49	2·93	36536
.....	1·3117	28·64	71·36	1·60	7·88	.....	53·68	.....	.....	36537

J. C. ROULEAU, INSPECTOR.

Challenge.....	1·3144	27·32	72·68	1·46	8·32	...	53·92	.....	.....	1279
Silver Cow.....	1·3028	29·76	70·24	1·64	8·24	.....	51·80	...	.....	1280
Challenge.....	1·3110	29·48	70·52	1·52	6·96	.....	54·24	.....	.....	1281
Canada First.	1·3123	28·08	71·92	1·78	7·84	...	54·24	.....	.....	1282

2 GEORGE V., A. 1912

TABLE I.—CONDENSED AND

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.
				Quantity.	Cents.	
DISTRICT OF ST. HYACINTHE—						
1910.						
Mar. 15	Condensed Milk....	1283	Gilmour & Girard, Waterloo.	2 tins.	50	Henri Nestle, Vevey, Switzerland.
" 9	Evaporated Cream..	1284	Paul Touriguy & fils	3 " .	45	St. Chas. Condensing Co., Ingersoll, Ont.
" 9	" ..	1285	H. H. Guay, Victoriaville.	3 " .	60	Aylmer Condensed Milk Co., Aylmer, Ont.
" 10	" ..	1286	Denault Grain and Produce Co., Sherbrooke.	3 " .	25	Borden's Condensed Milk Co., Ingersoll, Ont.
" 10	" ..	1287	Woodman & McKee, Coaticook.	3 " .	30	The Truro Condensed Milk Co., Truro, N.S.
" 18	" ..	1288	Thos. Hebert, St. Hyacinthe	3 " .	60	" " ..
DISTRICT OF MONTREAL—						
Mar. 1	Condensed Milk	40402	The Leeming Mills Co., Ltd., Montreal.	3 tins.	38	Henri Nestle
" 1	"	40403	" " ..	3 " .	38	"
" 1	"	40404	" " ..	3 " .	38	"
" 2	"	40405	George Graham, 572 St. Catherine W., Montreal.	3 " .	45	"
" 2	"	40406	" " ..	3 " .	45	"
" 3	"	40407	D. Demetelin, 144 St. Antoine St., Montreal.	3 " .	30	Canada Condensed Co., Ltd., Antigonish, N.S.
" 7	" ...	40408	Truro Condensed Milk Co., Ltd., Huntingdon, P.Q.	3 " .	37	Vendors.....
" 7	"	40409	" " ..	3 " .	30	"
" 8	"	40410	T. H. Mallette, 20 Lagachetiere St. W., Montreal	3 " .	45	Aylmer Condensed Milk Co., Ltd.
" 7	Condensed Cream...	40411	Truro Condensed Milk Co., Ltd., Huntingdon, P.Q.	3 " .	30	Vendors.....
DISTRICT OF OTTAWA—						
Feb. 28	Evaporated Cream..	42906	The F. J. Castle Co., Ltd., Ottawa.	3 tins.	31	Canadian Cannery Ltd., Aylmer, Ont.
Mar. 4	Condensed Milk....	42907	E. H. Brown, Cornwall. .	3 " .	75	Unknown.....
" 9	"	42908	Beattie & Argue, Ottawa..	3 " .	75	Nat. Drug & Chem. Co., Ltd., Ottawa.
" 9	Evaporated Cream..	42909	Bryson Graham Ltd., Ottawa.	3 " .	38	H. N. Bate & Sons., Ottawa.
" 10	Condensed Milk ...	42910	W. T. Pinkerton & Co., Ottawa.	3 " .	60	" " ..
" 10	"	42936	F. W. Forde, Ottawa.....	3 " .	38	Leeming Miles & Co., Montreal.
" 10	Evaporated Cream..	42937	P. Lamoureux & Co., Ottawa.	3 " .	45	Provost & Allard, Ottawa...
" 15	Condensed Milk....	42938	Joseph Grant, Ottawa.....	3 " .	30	St. Chas. Condensing Co., Ingersoll, Ont.
" 15	"	42939	Provost & Allard, Ottawa..	3 " .	33	Aylmer Condensed Milk Co., Ltd., Aylmer, Ont.
" 15	Evaporated Cream..	42940	A. E. Rea & Co., Ltd., Ottawa.	3 " .	38	The Truro Condensed Milk Co., Ltd., Truro, N.S.

SESSIONAL PAPER No. 14
EVAPORATED MILK (OR CREAM).

Inspector's Report (Is not an expres- sion of opinion).	RESULTS OF ANALYSIS.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Density.	Water.	Total Solids.	Ash.	Fat.	Milk Sugar.	Loss to 500 cc Warm Water.	Calculated on 9 per cent basis.		
								Concen- tration.			Fat in original bulk.

J. C. ROULEAU, INSPECTOR—*Concluded.*

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	
.....	1·3172	27·40	72·60	1·73	8·48	.....	53·40	.....	.....	1283	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1284	Both samples churned. Could not sample.
Canada First . . .	1·0861	69·00	31·00	1·76	7·40	12·51	.....	2·76	2·82	1285	
Peerless	1·0695	75·00	25·00	1·44	6·16	10·11	.....	2·17	2·94	1286	
Jersey	1·0678	73·44	26·56	1·46	7·40	9·31	.. .	2·21	3·48	1287	
"	1·0780	72·08	27·92	1·56	6·76	10·94	....	2·46	2·88	1288	

J. J. COSTIGAN, INSPECTOR.

Made in Switzer- land.	1·3048	26·68	73·32	1·72	9·00	.....	54·48	.....	.....	40402	
Made in England..	1·3200	27·40	72·60	1·78	8·42	...	54·28	.....	.....	40403	
" Norway..	1·3227	27·04	72·96	1·76	8·36	.. .	55·60	.. .	.....	40404	
" " ..	1·3206	27·08	72·92	1·74	8·52	.....	55·80	.....	.....	40405	
" England..	1·3172	27·40	72·60	1·66	8·60	.....	54·12	.....	.....	40406	
Pheasant.....	1·2987	32·96	67·04	1·70	5·36	.....	51·52	.....	.....	40407	
Reindeer	1·3103	30·00	70·00	1·54	6·96	.....	54·28	.....	.....	40408	
Clover	1·3116	29·36	70·64	1·62	7·68	.....	54·16	.....	.....	40409	
Canada First.	1·3186	28·48	71·52	1·64	7·16	.....	54·72	.....	.....	40410	
Jersey	1·0700	73·52	26·48	1·46	7·04	9·57	.....	2·24	3·26	40411	

J. A. RICKEY, INSPECTOR.

Canada First.....	1·0847	69·20	30·80	1·70	8·00	11·96	.....	2·12	3·16	42906	
Nest Brand, in England.	1·3172	28·20	71·80	1·74	7·34	....	53·60	.....	.....	42907	
Reindeer.....	1·3227	27·48	72·52	1·68	7·84	.....	55·04	.....	.....	42908	
Peerless ...	1·0763	72·92	27·08	1·54	1·52	10·95	.....	2·39	2·85	42909	
Eagle.....	1·3158	26·68	73·32	1·42	9·00	.....	54·28	.....	...	42910	
Nest Brand, in Switzerland.	.....	.....	...	.....	.....	.....	.....	.....	.....	42936	Sample too thick to obtain ac- curate results.
.....	1·0682	75·24	24·76	1·46	6·20	9·49	.....	2·14	3·01	42937	
Good Luck..	1·3035	30·92	69·08	1·66	7·06	... .	53·00	.....	.....	42938	
Canada First.....	1·3110	27·36	72·64	1·68	8·88	.....	53·16	.....	.....	42939	
Jersey Cream.....	1·0730	71·80	28·20	1·54	7·76	10·10	.....	2·37	3·42	42940	

2 GEORGE V., A. 1912

TABLE I.—CONDENSED AND

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.
				Quantity.	Cents.	
DISTRICT OF KINGSTON—						
1910.						
Mar. 1	Condensed Milk....	44221	F. Hoag, Kingston.....	3 tins.	45	Borden.....
" 1	"	44222	C. S. Prouse, Kingston....	3 " ..	45	Nestle's.....
" 1	"	44223	J. McLeod, Kingston.....	3 " ..	45	Borden
" 3	"	44224	R. Templeton, Belleville...	3 " ..	1.38	.....
" 3	"	44225	F. C. Clarke, Belleville....	3 " ..	75	.....
" 3	"	44226	A. J. Gould, Cobourg. ...	3 " ..	60	Borden.....
" 3	"	44227	W. J. B. Davison, Port Hope.	3 " ..	75	"
" 4	"	44228	McDermid & Jury, Peterboro.	3 " ..	69	"
" 4	"	44229	E. L. Payne, Peterboro...	3 " ..	1.50	.....
" 4	"	44230	J. D. Tulley, Peterboro...	3 " ..	60	Borden.....
DISTRICT OF TORONTO—						
Mar. 2	Evaporated Cream..	41462	E. Broad, 142 Queen St. East, Toronto.	3 cans.	15	St. Char. Condensing Co., Ingersoll.
" 2	Condensed Milk	41463	C. C. Wood, 1,001 Queen St. East, Toronto.	3 " ..	30	Borden's Condensed Milk Co., New York.
" 3	Evaporated Cream..	41464	J. Poleskey, 1,594 Dundas St. West, Toronto.	3 " ..	30	" ..
" 8	" Milk....	41465	Peebles, Hobson & Co., King St., Hamilton.	3 " ..	25	Libby, McNeil & Libby, Chicago.
" 8	" Cream ..	41466	Bain & Adams, King St., Hamilton.	3 " ..	15	Aylmer Condensed Milk Co., Aylmer, Ont.
" 14	Condensed Milk ...	41467	E. J. Wilson, Milton.....	3 " ..	45	Eby Blain Co., Ltd., Toronto.
" 15	"	41468	Park & Park, Hamilton...	3 " ..	38	John Malcom & Son, St. George.
" 15	Jersey Cream.....	41469	The W. H. Merriman Co., St. Catharines.	3 " ..	22	The Truro Condensed Milk Co., Ltd., Truro, N.S.
" 16	Condensed Milk	41470	J. T. Petrie, Thorold.....	3 " ..	30	John Malcom & Son, St. George.
" 17	"	41471	F. H. Taylor, 4 Erie Ave., Niagara Falls.	3 " ..	38	Borden's Condensed Milk Co., Tillsonburg, Ont.
" 18	"	41479	E. J. West & Co., 176 King St. East, Toronto.	3 " ..	45	Henri Nestle, Vevey, Switzerland.
" 18	"	41480	" " ..	3 " ..	45	" ..
" 18	"	41481	" " ..	3 " ..	45	" ..

SESSIONAL PAPER No. 14

EVAPORATED MILK (OR CREAM).

Inspector's Report. (Is not an expres- sion of opinion).	RESULTS OF ANALYSIS.									No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Density.	Water.	Total Solids.	Ash.	Fat.	Milk Sugar.	Loss to 500 cc Warm Water.	Calculated on 9 per cent basis.			
								Concen- tration.	Fat in original bulk.		
JAS. HOGAN, INSPECTOR.											
		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
Eagle.....	1.3214	27.80	72.20	1.72	7.60	.....	54.64	.....	.....	44221	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	44222	Nestle's Milk Food, purchased by mistake.
Eagle	1.3131	27.52	72.48	1.56	9.00	.....	52.84	.....	.....	44223	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	44224	Nestle's Milk Food.
Silver Cow.	1.3144	27.32	72.68	1.54	8.32	.....	53.60	.....	.....	44225	
.....	1.3234	27.28	72.72	1.58	7.88	.....	55.92	.....	.....	44226	
Eagle	1.3021	31.08	68.92	1.48	7.52	.....	52.52	.....	.....	44227	
"	1.3242	27.60	72.40	1.72	7.80	.....	55.72	.....	.....	44228	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	44229	Nestle's Milk Food.
Eagle.....	1.3214	27.68	72.32	1.64	7.44	.....	54.96	.....	.....	44230	
H. J. DAGER, INSPECTOR.											
St. Charles	1.0733	73.08	26.92	1.54	6.88	10.34	.....	2.32	3.09	41462	
Challenge.....	1.3117	28.24	71.76	1.42	7.76	.....	53.72	.....	.....	41463	
Peerless	1.0771	72.34	27.66	1.82	7.08	11.03	.....	2.39	3.10	41464	
Libby's Unsweet- ened Sterilized Evaporated Milk	1.0679	75.36	24.64	1.60	6.00	9.90	.....	2.15	2.90	41465	Sample somewhat churned, conse- quently, results not altogether satisfactory.
Canada First	1.0789	70.56	29.44	1.48	7.48	10.91	.....	2.56	3.06	41466	
Anchor	1.3104	29.32	70.68	1.82	8.28	.....	52.12	.....	.....	41467	
Banner	1.3448	28.72	71.28	1.70	3.88	.....	58.20	.....	.....	41468	
Jersey Cream.....	1.0708	73.12	26.88	1.46	7.48	9.42	.....	2.24	3.47	41469	
Princess	1.3383	27.32	72.68	1.76	5.40	.....	57.36	.....	.....	41470	
Challenge.....	1.3193	27.00	73.00	1.58	7.64	.....	55.84	.....	.....	41471	
Labelled Nestle's Condensed Milk in Norway.	1.3220	26.88	73.12	1.68	8.68	.....	55.36	.....	.....	41479	
Labelled Nestle's Condensed Milk in England.	1.3234	27.24	72.76	1.86	8.48	.....	54.64	.....	.....	41480	
Labelled Nestle's Condensed Milk prepared in Switzerland.	1.3138	26.88	73.12	1.68	9.00	.....	54.24	.....	.....	41481	

2 GEORGE V., A. 1912

TABLE I.—CONDENSED AND

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.
				Quantity.	Cents.	
DISTRICT OF LONDON—						
1910.						
Mar. 10	Condensed Milk	44719	Jackson & Son, Guelph....	3 cans.	45	Truro Condensed Milk Co., Truro, N.S.
" 10	"	44720	Hood Bros., Guelph	" .	45	McPherson & Glasco, Hamil- ton.
" 11	"	44721	Beck & Schell, Berlin.....	" .	30	John Sloan, London, Ont...
" 12	Evaporated Cream..	44724	Barnsdale Trading Co., Stratford.	" .	45	Geo. Watts & Sons, Brant ford.
" 15	Condensed Milk	44728	P. J. Dean, Goderich	" .	38	Masuret, London
April 11	"	44737	N. E. Coppin.....	" .	45	St. Chas. Condensing Co., Ingersoll.
" 14	"	44741	McCully & Haugh, Strat- ford.	" .	45	Unknown.....
" 14	"	44744	Pickard & Fleming, St. Marys.	" .	45	John Malcom & Son, St George.
" 19	"	44749	Armstrong Bros., Fergus..	" .	30	T. Kinnear, Grocer, Toronto.
" 21	"	44752	B. A. McEwin, Clinton...	" .	45	St. Chas. Condensing Co., Ingersoll.
" 21	"	44753	J. P. Shepherd & Co., Clin- ton.	" .	45	" "
DISTRICT OF WINDSOR—						
Mar. 3	Condensed Milk	42508	Jno. Diprose, London.....	3 tins.	45	St. Chas. Condensing Co., Ingersoll.
" 3	Evaporated Cream.	42511	Harry Ranahan, London..	3 "	45	Aylmer Condensed Milk Co., Aylmer, Ont.
" 4	Condensed Milk	42514	Jno. Diprose, No. 2 Store, London.	3 "	45	" "
" 4	Evaporated Cream..	42515	A. J. Clark, London	3 "	45	St. Chas. Condensing Co., Ingersoll.
" 5	Condensed Milk	42517	W. T. Strong, London	4 "	75	Henri Nestle, Vevey, Switzer- land.
" 7	"	42521	Clement Drug Co., Sarnia.	3 "	75	Borden Condensed Milk Co., New York.
" 7	"	42525	Stanley C. Williams, Sarnia	3 "	30	Truro Condensed Milk Co...
" 8	Evaporated Cream..	42536	C. R. Polley, Petrolia.....	3 "	45	St. Chas. Condensing Co., Ingersoll.
" 9	Condensed Milk	42542	Fred W. Judd, St. Thomas	3 "	75	Henri Nestle, Vevey, Switzer- land.
" 9	"	42543	J. A. McCause, St. Thomas	3 "	40	Borden's Condensed Milk Co., New York.
DISTRICT OF MANITOBA—						
Mar. 14	Condensed Milk	39891	A. Macdonald & Co., Win- nipeg.	3 tins.	40	Borden's Condensed Milk Co., Tillsonburg, Ont.
" 14	"	39892	Wm. McCullough, Winni- peg.	3 "	45	The Truro Condensed Milk Co., Ltd., Truro, N.S.
" 14	"	39893	" "	3 "	45	Aylmer Condensed Milk Co., Ltd., Aylmer, Ont.

SESSIONAL PAPER No. 14

EVAPORATED MILK (OR CREAM).

Inspector's Report (Is not an expres- sion of opinion).	RESULTS OF ANALYSIS.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Density.	Water.	Total Solids.	Ash.	Fat.	Milk Sugar.	Loss to 500 cc Warm Water.	Calculated on 9 per cent basis.		
								Concen- tration.			Fat in original bulk.

T. KIDD, INSPECTOR.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
.....	1·3172	27·84	72·16	1·62	8·20	.....	54·12	.....	.....	44719	
.....	1·3110	27·56	72·44	1·60	8·08	.....	54·40	.....	.....	44720	
.....	1·3186	27·52	72·48	1·60	7·28	.....	55·44	.....	.....	44721	
.....	1·0673	74·12	25·88	1·44	7·20	9·05	.....	2·15	3·47	44724	
.....	1·3179	27·88	72·12	1·54	7·32	.....	55·48	.....	.....	44728	
.....	1·3103	28·29	71·80	1·42	8·30	.....	53·12	.....	.....	44737	
.....	1·3034	29·04	70·96	1·64	8·16	.....	52·96	.....	.....	44741	
.....	1·3179	28·28	71·72	1·66	7·60	.....	54·80	.....	.....	44744	
.....	1·3217	27·56	72·44	1·48	8·24	.....	54·72	.....	.....	44749	
.....	1·2960	32·36	67·64	1·60	7·48	.....	50·52	.....	.....	44752	
.....	1·3014	28·88	71·12	1·50	8·80	.....	52·12	.....	.....	44753	

JNO. TALBOT, INSPECTOR.

Silver Cow.....	1·3034	28·28	71·72	1·64	8·24	.....	53·52	.....	...	42508	
Canada First	1·0703	72·12	27·88	1·50	7·96	9·81	.....	2·30	3·60	42511	
.....	1·3298	25·96	74·04	1·72	7·68	.....	56·60	.....	.....	42514	
St. Charles	1·0649	75·04	24·96	1·46	6·20	8·81	.....	2·12	3·18	42515	
Nest Brand.....	1·3138	28·48	71·52	1·82	7·52	.....	53·42	.....	.....	42517	
Eagle.....	1·3082	29·96	70·04	1·64	7·24	.....	53·12	.....	.....	42521	
Clover	1·3104	30·92	69·08	1·56	7·24	.....	53·20	.....	.....	42525	
St. Charles	1·0710	72·36	27·64	1·48	7·88	9·65	.....	2·28	3·59	42536	
Nestle's condensed milk.	1·3158	27·60	72·40	1·86	8·08	.....	54·40	.....	.....	42542	
Challenge.....	1·3220	26·88	73·12	1·76	8·20	.....	55·52	.....	.....	42543	

A. C. LARIVIERE, INSPECTOR.

Gold Seal	1·3186	26·44	73·56	1·64	8·16	.....	55·32	.....	.....	39891	
Reindeer	1·3220	26·92	73·08	1·62	8·08	55·00	39892	
Canada First	1·2954	30·24	69·76	1·76	8·04	51·80	39893	

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TABLE I.—CONDENSED AND

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.
				Quantity.	Cents.	
DISTRICT OF MANITOBA—						
1910.						
Mar. 14	Condensed Milk....	39894	J. N. Campbell, Winnipeg.	3 tins.	45	The A. Macdonald Co., Win- nipeg.
" 14	"	39895	H. E. Weldon & Co., Win- nipeg.	3 " .	30	Chtn. Condensed Milk Co., Charlottetown.
" 14	Exaporated Cream..	39896	A. Macdonald & Co., Win- nipeg.	3 " .	30	.....
" 14	" ..	39897	H. E. Weldon & Co., Win- nipeg.	3 " .	30	The Truro Condensed Milk Co., Ltd.. Truro, N.S.
" 14	Condensed Milk	39898	The Hudson Bay Co., Win- nipeg.	3 " .	40	Emery Food Co., Chicago, Ill.
" 14	"	39899	" " ..	3 " .	40	Canada Condensed Milk Co., Ltd., Antigonish, N.S.
" 15	Evaporated Cream..	39900	A. W. Smith, Winnipeg...	3 " .	30	The Canadian Condensing Co., Ltd., Chesterville, Ont.
DISTRICT OF CALGARY—						
Mar. 8	Evaporated Cream..	35657	J. H. Morris & Co., Ed- monton.	3 tins.	45	St. Chas. Condensing Co., Illinois, U.S.A.
" 8	Condensed Milk....	35658	Gilbert Berg, Edmonton ..	3 " .	45	The Truro Condensed Milk Co., Truro, N.S.
" 8	"	35659	Hallier & Aldridge, Ed- monton.	3 " .	45	" " ..
" 8	"	35660	The Edmonton Drug Co., Edmonton.	3 " .	45	Bordens Condensed Milk Co. New York.
" 15	Evaporated Cream..	35661	D. Milne Co., Ltd., Medi- cine Hat.	3 " .	45	St. Chas. Condensing Co. Illinois, U.S.A.
" 15	Condensed Milk....	35662	" " ..	3 " .	45	Bordens Condensed Milk Co., New York.
" 15	"	35663	Spencer & Todd, Medicine Hat.	3 " .	45	The Truro Condensed Milk Co., Truro, N.S.
" 15	Evaporated Cream..	35664	L. B. Cochrane, Medicine Hat.	3 " .	45	B.C. Condensed Milk Co., New Westminster.
" 18	" ..	35665	Campbell Wilson & Horne, Calgary.	3 " .	45	Aylmer Condensed Milk Co., Aylmer, Ont.
" 22	Condensed Milk....	35666	Hudson's Bay Co., Edmon- ton.	3 " .	45	" " ..
DISTRICT OF VANCOUVER—						
Mar. 10	Evaporated Cream..	37828	Geo. Wagg, Vancouver, B.C.	3 tins.	40	B.C. Milk Condensing Co...
" 10	Condensed Milk....	37829	Woodward Dept. Store, Vancouver, B.C.	3 " .	45	Canada Milk Condensing Co.
" 10	Evaporated Cream..	37830	McCulloch Bros., Van- couver, B.C.	3 " .	25	Pacific Coast Condensing Co.
" 10	Condensed Milk....	37831	S. Goranson, Vancouver, B.C.	3 " .	60	Bordens Condensed Milk Co.
" 10	"	37832	Peoples Grocery, Van- couver, B.C.	3 " .	25	Truro Condensed Milk Co...
" 10	Evaporated Cream..	37833	A. Murray & Co., Van- couver, B.C.	3 " .	45	Aylmer Condensed Milk Co.

SESSIONAL PAPER No. 14

EVAPORATED MILK (OR CREAM).

Inspector's Report (Is not an expres- sion of opinion).	RESULTS OF ANALYSIS.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Density.	Water.	Total Solids.	Ash.	Fat.	Milk Sugar.	Loss to 500 cc Warm Water.	Calculated on 9 per cent basis.		
								Concen- tration.			Fat in original bulk.

A. C. LARIVIERE, INSPECTOR—*Concluded.*

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	
White Star.. . . .	1·3104	29·60	70·40	1·86	7·96	.....	52·52	.....	.....	39894
Canadian.	1·2927	31·60	68·40	1·50	8·16	.....	50·36	.....	.....	39895
St. Charles	1·0703	72·84	27·16	1·42	7·20	9·34	.....	2·30	3·25	39896
Jersey Cream.....	1·0710	73·16	26·84	1·42	7·24	9·84	.....	2·26	3·32	39897
Emery.	1·3234	27·16	72·84	1·62	7·64	.....	55·76	.....	.....	39898
Pheasant.....	1·3103	33·00	67·00	1·80	4·24	.....	52·40	.....	.....	39899
Imperial	1·0615	77·96	22·04	1·14	5·64	8·70	.....	1·88	3·10	39900

R. W. FLETCHER, INSPECTOR.

.....	1·0789	71·60	28·40	1·64	6·60	10·74	.....	2·48	2·72	35657
.....	1·3096	28·84	71·16	1·58	8·04	.....	53·60	.....	.....	35658
.....	1·3090	28·60	71·40	1·58	8·60	.....	53·48	.....	.....	35659
Eagle	1·3214	27·84	72·16	1·76	7·44	.....	55·40	..	.....	35660
.....	1·0765	72·12	27·88	1·46	7·04	10·68	.....	2·36	3·04	35661
Challenge.....	1·3220	27·04	72·96	1·60	7·72	.....	55·68	...	.....	35662
Reindeer.....	1·3270	26·88	73·12	1·76	8·04	.....	55·72	.....	.....	35663
B.C. Midget.....	1·0846	72·68	27·32	1·48	5·00	11·40	.....	2·61	2·02	35664
Canada First.....	1·0715	71·60	28·40	1·56	8·08	9·89	.....	2·35	2·58	35665
"	1·3104	30·20	69·80	1·52	7·64	.....	52·40	.....	.....	35666

J. F. POWER, INSPECTOR.

B.C. Brand.....	1·0702	75·36	24·64	1·26	5·92	10·16	....	2·16	2·85	37828
Pheasant.....	1·3284	30·12	69·88	1·74	2·76	.....	57·56	.....	.....	37829
Carnation.....	1·0629	76·20	23·80	1·42	6·68	8·62	.....	1·96	3·51	37830
Eagle.....	1·3116	28·00	72·00	1·60	7·88	.....	53·92	..	.....	37831
Reindeer.....	1·3123	27·92	72·08	1·68	8·56	.....	53·68	.....	.....	37832
Canada First.....	1·0721	72·80	27·20	1·44	7·04	10·16	.....	2·33	3·14	37833

TABLE I—CONDENSED AND

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.
				Quantity.	Cents.	
DISTRICT OF VANCOUVER—						
1910.						
Mar. 10	Evaporated Cream..	37834	A. McFarlane, Vancouver, B.C.	3 tins.	40	St. Chas. Condensing Co....
" 11	Condensed Milk....	37835	J. A. Tepoorten & Co., Vancouver, B.C.	3 " .	45	Henri Nestle....
" 11	"	37836	" " ..	3 " .	45	"
" 11	"	37837	" " ..	3 " .	45	"
DISTRICT OF VICTORIA—						
Mar. 15	Evaporated Cream..	41649	Windsor Grocery Co., Victoria, B.C.	3 tins.	45	B.C. Condensing Co., New Westminster.
" 15	Jersey Cream.....	41650	" " ..	3 " .	40	Truro Condensed Milk Co., Ltd., Truro, N.S.
" 15	Condensed Milk....	41651	" " ..	3 " .	45	" " ..
" 16	Evaporated Cream..	41652	Saunders Grocery Co., Ltd.	3 " .	25	Pacific Coast Condensed Milk Co., Kent, Wash.
" 16	Condensed Milk....	41653	" " ..	3 " .	40	Bordens Condensed Milk Co., New York.
" 16	"	41654	" " ..	3 " .	40	Aylmer Condensed Milk Co., Aylmer, Ont.
" 16	" ...	41655	" " ..	3 " .	40	Bordens Condensed Milk Co., New York.
" 17	"	41656	Scott & Peden, Victoria, B.C.	3 " .	30	John Malcom & Son., St. George, Ont.
" 17	Evaporated Cream..	41657	Wm. B. Hall, Victoria, B.C.	3 " .	30	The Chtn. Condensed Milk Co., Ltd., Charlottetown.
" 17	" ..	41658	Harrison & McDonald, Victoria, B.C.	3 " .	30	Ingersoll Factory, Ingersoll Ont.

SESSIONAL PAPER No. 14

EVAPORATED MILK (OR CREAM).

Inspector's Report. (Is not an expres- sion of opinion).	RESULTS OF ANALYSIS.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Destiny.	Water.	Total Solids.	Ash.	Fat.	Milk Sugar.	Loss to 500 cc Warm Water.	Calculated on 9 per cent basis.		
								Concen- tration.			Fat in original bulk.

J. F. POWER, INSPECTOR—*Concluded.*

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
St. Charles.	1·0716	74·28	25·72	1·48	6·20	9·98	.....	2·25	2·86	37834	
"Nest Brand" Swiss.	1·3138	27·68	72·32	1·66	8·76	...	54·20	....	....	37835	
"Nest Brand" Norway.	1·3186	27·56	72·44	1·72	8·68	.....	54·44	....	....	37836	
2 "Nest Brand" England.	1·3200	26·84	73·16	1·70	8·68	.....	54·64	....	....	37837	

D. O'SULLIVAN, INSPECTOR.

B.C. Brand.	1·0619	76·08	23·92	1·22	6·84	9·03	....	1·95	3·60	41649	
Jersey Cream un- sweetened.	1·0783	69·92	30·08	1·66	7·84	10·70	.....	2·59	3·17	41650	
Reindeer	1·3227	27·04	72·96	1·68	7·56	.....	56·00	.....	.....	41651	
Carnation.	1·0628	76·08	23·92	1·28	6·80	8·78	.....	1·96	3·57	41652	
Eagle.	1·3200	28·48	71·52	1·54	7·32	.....	54·96	....	.....	41653	
Canada First sweetened.	1·3193	29·04	70·96	1·64	6·80	.....	54·56	.....	.....	41654	
Gold Seal.	1·3158	26·88	73·12	1·74	7·36	.....	56·68	....	.....	41655	
Banner.	1·3298	28·24	71·76	1·76	6·40	.....	56·76	.....	...	41656	
Empress.	1·0798	69·80	30·20	1·46	8·12	11·14	....	2·57	3·31	41657	
St. Charles.	1·0710	73·12	26·88	1·58	6·92	9·92	....	2·31	3·12	41658	

2 GEORGE V., A. 1912

TABLE II.—EVAPORATED (UNSWEETENED) MILK.

Name of Brand.	Sample.	Density.	Water.	Total Solids.	Ash.	Fat.	Milk Sugar.	CALCULATED ON 9 PER CENT BASIS.	
								Concentration.	Fat in original bulk.
			p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.
B. C	35664	1·0846	72·68	27·32	1·48	5·00	11·40	2·61	2·02
"	37828	1·0702	75·36	24·64	1·26	5·92	10·16	2·16	2·85
"	41649	1·0619	76·08	23·92	1·22	6·84	9·03	1·95	3·60
"	Means.	1·0722	74·71	25·29	1·32	5·92	10·19	2·24	2·82
Canada First	1285	1·0861	69·00	31·00	1·76	7·40	12·51	2·76	2·82
"	35665	1·0715	71·60	28·40	1·56	8·08	9·89	2·35	3·58
"	37833	1·0721	72·80	27·20	1·44	7·04	10·16	2·33	3·14
"	39660	1·0845	69·60	30·40	1·86	7·56	12·19	2·67	2·98
"	41466	1·0789	70·56	29·44	1·48	7·48	10·91	2·56	3·06
"	41916	1·0750	72·92	27·08	1·46	6·68	10·78	2·37	2·95
"	42511	1·0703	72·12	27·88	1·50	7·96	9·81	2·30	3·30
"	42906	1·0847	69·20	30·80	1·70	8·00	11·96	2·12	3·16
"	Means.	1·0779	70·98	29·02	1·59	7·52	11·03	2·43	3·16
Carnation	37830	1·0629	76·20	23·80	1·42	6·68	8·62	1·96	3·51
"	41652	1·0628	76·08	23·92	1·28	6·80	8·78	1·96	3·57
"	Means.	1·0629	76·14	23·86	1·35	6·74	8·70	1·96	3·54
Empress	41657	1·0798	69·80	30·20	1·46	8·12	11·14	2·57	3·31
Imperial	39900	1·0615	77·96	22·04	1·14	5·64	8·70	1·88	3·10
Jersey Cream	1287	1·0678	73·44	26·56	1·46	7·40	9·31	2·21	3·48
"	1288	1·0780	72·08	27·92	1·56	6·76	10·94	2·46	2·88
"	38650	1·0736	73·16	26·84	1·56	6·92	10·00	2·31	3·13
"	39669	1·0727	72·56	27·44	1·74	6·76	10·30	2·39	2·94
"	39897	1·0710	73·16	26·84	1·42	7·24	9·84	2·26	3·32
"	40411	1·0700	73·52	26·48	1·46	7·04	9·57	2·24	3·26
"	41469	1·0708	73·12	26·88	1·46	7·48	9·42	2·24	3·47
"	41650	1·0783	69·92	30·08	1·66	7·84	10·70	2·59	3·17
"	41918	1·0757	72·76	27·24	1·74	6·88	10·53	2·36	3·04
"	42536	1·0710	72·36	27·64	1·48	7·88	9·65	2·28	3·59
"	42940	1·0730	71·80	28·20	1·54	7·76	10·10	2·37	3·42
"	Means.	1·0709	72·53	27·47	1·55	7·27	10·03	2·34	3·25
Libby's	41465	1·0679	75·36	24·64	1·60	6·00	9·90	2·15	2·90
Peerless	1286	1·0695	75·00	25·00	1·44	6·16	10·11	2·17	2·94
"	36536	1·0783	71·64	28·36	1·70	6·96	10·99	2·49	2·93
"	39667	1·0780	72·16	27·84	1·54	6·92	10·33	2·43	2·98
"	41464	1·0771	72·34	27·66	1·82	7·08	11·03	2·39	3·10
"	41917	1·0721	74·00	26·00	1·68	6·56	10·51	2·25	3·04
"	42909	1·0763	72·92	27·08	1·54	6·52	10·95	2·39	2·85
"	Means.	1·0752	73·01	26·97	1·62	6·70	10·65	2·35	2·98
St. Charles	35657	1·0789	71·60	28·40	1·64	6·60	10·74	2·48	2·72
"	35661	1·0765	72·12	27·88	1·46	7·04	10·68	2·36	3·04
"	37834	1·0716	74·28	25·72	1·48	6·20	9·93	2·25	2·86
"	38652	1·0728	72·48	27·52	1·44	7·00	10·01	2·37	3·07
"	39665	1·0761	72·32	27·68	1·58	6·68	10·67	2·44	2·86
"	39896	1·0703	72·84	27·16	1·42	7·20	9·34	2·30	3·25

SESSIONAL PAPER No. 14

TABLE II.—EVAPORATED (UNSWEETENED) MILK.

Name of Brand.	Sample.	Density.	Water.	Total Solids.	Ash.	Fat.	Milk Sugar.	CALCULATED ON 9 PER CENT BASIS.	
								Concen- tration.	Fat in original bulk.
			p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.
St. Charles.	41462	1·6733	73·08	26·92	1·54	6·88	10·34	2·32	3·09
"	41658	1·0710	73·12	26·88	1·58	6·92	9·92	2·31	3·12
"	41919	1·0700	74·04	25·96	1·44	6·84	9·85	2·21	3·22
"	42515	1·0549	75·04	24·96	1·46	6·20	8·81	2·12	3·18
"	42937	1·0682	75·24	24·76	1·46	6·20	9·49	2·14	3·01
"	44724	1·0673	74·12	25·88	1·44	7·20	9·05	2·15	3·47
"	Means.	1·0717	73·36	26·64	1·50	6·94	9·91	2·29	3·07

TABLE III.—CONDENSED (SWEETENED) MILK.

Name of Brand.	Sample.	Density.	Water.	Total Solids.	Ash.	Fat.	Loss to 500 cc. Warm Water.
			p. c.	p. c.	p. c.	p. c.	p. c.
Anchor.....	41467	1·3104	29·32	70·68	1·82	8·28	52·12
Banner.....	41468	1·3448	28·72	71·23	1·70	3·88	58·20
".....	41656	1·3298	28·24	71·76	1·76	6·40	56·76
".....	41744	1·3179	28·28	71·72	1·66	7·60	54·80
".....	Means..	1·3309	28·41	71·59	1·71	5·96	56·60
Beaver.....	38648	1·3158	28·80	71·20	1·62	7·56	54·16
Canadian.....	39895	1·2927	31·60	68·40	1·50	8·16	50·36
Canada First.....	1282	1·3123	28·08	71·92	1·78	7·84	54·24
".....	35666	1·3104	30·20	69·80	1·52	7·64	52·40
".....	38651	1·3165	28·48	71·52	1·72	7·48	55·00
".....	39666	1·3131	28·16	71·84	1·82	8·12	53·64
".....	39893	1·2954	30·24	69·76	1·76	8·04	51·80
".....	40410	1·3186	28·48	71·52	1·64	7·16	54·72
".....	41654	1·3193	29·04	70·96	1·64	6·80	54·56
".....	42514	1·3298	25·96	74·04	1·72	7·68	56·60
".....	42939	1·3110	27·36	72·64	1·68	8·88	53·16
".....	Means..	1·3140	28·45	71·55	1·70	7·74	54·01
Challenge.....	1279	1·3144	27·32	72·68	1·46	8·32	53·92
".....	1281	1·3100	29·48	70·52	1·52	6·96	54·24
".....	35662	1·3220	27·04	72·96	1·60	7·72	55·68
".....	36537	1·3117	28·64	71·36	1·60	7·88	53·68
".....	38653	1·3242	26·20	73·80	1·74	8·28	55·52
".....	41463	1·3117	28·24	71·76	1·42	7·76	53·72
".....	41471	1·3193	27·00	73·00	1·58	7·64	55·84
".....	42543	1·3220	26·88	73·12	1·76	8·20	55·52
".....	44721	1·3186	27·52	72·48	1·60	7·28	55·44
".....	44749	1·3217	27·56	72·44	1·48	8·24	54·72
".....	Means..	1·3175	27·59	72·41	1·58	7·83	54·89
Clover.....	39664	1·3130	29·24	70·76	1·56	7·16	54·80
".....	40409	1·3116	29·36	70·64	1·62	7·68	54·16
".....	41923	1·3116	31·04	68·96	1·54	7·00	53·40
".....	42525	1·3104	30·92	69·08	1·56	7·24	53·20
".....	Means..	1·3116	30·14	69·86	1·57	7·27	53·89
Eagle.....	35660	1·3214	27·84	72·16	1·76	7·44	55·40
".....	37831	1·3116	28·00	72·00	1·60	7·88	53·92
".....	39661	1·3242	27·12	72·88	1·54	7·80	55·72
".....	41653	1·3200	28·48	71·52	1·54	7·32	54·96
".....	42521	1·3082	29·96	70·04	1·64	7·24	53·12
".....	42910	1·3158	26·68	73·32	1·42	9·00	54·28
".....	44221	1·3214	27·80	72·20	1·72	7·60	54·64
".....	44223	1·3131	27·52	72·48	1·56	9·00	52·84
".....	44226	1·3234	27·28	72·72	1·58	7·88	55·92
".....	44227	1·3021	31·08	68·92	1·48	7·52	52·52
".....	44228	1·3242	27·60	72·40	1·72	7·80	55·72
".....	44230	1·3214	27·68	72·32	1·64	7·44	54·96
".....	44720	1·3110	27·56	72·44	1·60	8·08	54·40
".....	Means..	1·3167	28·04	71·96	1·60	7·85	54·49

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TABLE III.—CONDENSED (SWEETENED) MILK—*Continued.*

Name of Brand.	Sample.	Density.	Water.	Total Solids.	Ash.	Fat.	Loss to 500 cc Warm Water.
			p. c.	p. c.	p. c.	p. c.	p. c.
Emery's	39898	1.3234	27.16	72.84	1.62	7.64	55.76
Gold Seal.....	36534	1.3291	26.64	73.36	1.72	7.28	57.20
"	39891	1.3186	26.44	73.56	1.64	8.16	55.32
"	41655	1.3158	26.88	73.12	1.74	7.36	56.68
"	Means..	1.3212	26.65	73.35	1.70	7.60	56.40
Good Luck	42938	1.3035	30.92	69.08	1.66	7.06	53.00
Lion.....	38647	1.2920	29.96	70.04	1.54	8.92	50.68
Nestle's, N.B. (prepared in England).....	1283	1.3172	27.40	72.60	1.78	8.48	53.40
"	46529	1.3270	27.36	72.64	1.76	8.48	54.68
"	36531	1.3200	27.24	72.76	1.76	8.28	54.44
"	37837	1.3200	26.84	73.16	1.70	8.68	54.64
"	38646	1.3138	27.32	72.68	1.88	9.08	52.52
"	38649	1.3276	26.24	73.76	1.98	7.60	55.68
"	38654	1.3206	27.04	72.96	1.86	8.48	53.76
"	40403	1.3200	27.40	72.60	1.78	8.42	54.28
"	40406	1.3172	27.40	72.60	1.66	8.60	54.12
"	41486	1.3234	27.24	72.76	1.86	8.48	54.64
"	42517	1.3138	28.48	71.52	1.82	7.52	53.42
"	42542	1.3158	27.60	72.40	1.86	8.08	54.40
"	42907	1.3172	28.20	71.80	1.74	7.34	53.60
"	Means..	1.3195	27.87	72.63	1.80	8.27	54.12
Nestle's N.B. (prepared in Norway).....	36530	1.3193	27.08	72.92	1.66	8.52	55.32
"	36532	1.3179	26.56	73.44	1.78	9.38	54.52
"	37836	1.3186	27.56	72.44	1.72	8.68	54.44
"	40404	1.3227	27.04	72.96	1.76	8.36	55.60
"	40405	1.3206	27.08	72.92	1.74	8.72	55.80
"	41479	1.3220	26.88	73.12	1.68	8.68	55.36
"	Means..	1.3202	27.03	72.97	1.72	8.69	55.17
Nestle's Swiss Milk	36528	1.3144	26.44	73.56	1.60	9.04	54.52
"	37835	1.3138	27.68	72.32	1.66	8.76	54.20
"	40402	1.3048	26.28	73.32	1.72	9.00	54.48
"	41481	1.3138	26.68	73.12	1.68	9.00	54.24
"	41920	1.3186	26.44	73.56	1.62	8.92	54.16
"	Means..	1.3131	26.82	73.18	1.66	8.94	54.32
Oak	38655	1.3090	28.24	71.76	1.82	8.42	53.56
Pheasant	37829	1.3284	30.12	69.88	1.74	2.76	57.56
"	39668	1.3206	31.68	68.32	1.76	5.04	53.36
"	39899	1.3163	33.00	67.00	1.80	4.24	52.40
"	40407	1.2987	32.96	67.04	1.70	5.36	51.52
"	Means..	1.3145	31.94	68.06	1.75	4.35	53.71
Princess.....	41470	1.3383	27.32	76.68	1.76	5.40	57.36

TABLE III.—CONDENSED (SWEETENED) MILK—*Concluded.*

Name of Brand.	Sample.	Density.	Water	Total Solids.	Ash.	Fat.	Loss to 500 cc. Warm Water.
			p. c.	p. c.	p. c.	p. c.	p. c.
Purity.....	39663	1·3220	27·32	72·68	1·62	7·64	55·28
Red Cow.	41922	1·3455	32·24	67·76	1·92	0·60	56·36
Reindeer	35668	1·3096	28·84	71·16	1·58	8·04	53·60
"	35659	1·3090	28·60	71·40	1·58	8·60	53·48
"	35663	1·3270	26·88	73·12	1·76	8·04	55·72
"	36533	1·3116	27·88	72·12	1·66	8·74	53·00
"	37832	1·3123	27·92	72·08	1·68	8·56	53·68
"	39662	1·3263	26·96	73·04	1·86	7·60	56·00
"	39892	1·3220	26·92	73·08	1·62	8·08	55·00
"	40408	1·3103	40·00	70·00	1·54	6·96	54·28
"	41651	1·3227	27·04	72·96	1·68	7·56	56·00
"	41921	1·3298	27·00	73·00	1·86	7·36	55·96
"	42908	1·3227	27·48	72·52	1·68	7·84	55·04
"	44719	1·3172	27·84	72·16	1·62	8·20	54·12
"	Means..	1·3183	27·78	72·22	1·68	7·97	54·66
Royal.....	41924	1·3298	29·52	70·48	1·76	4·60	55·00
Silver Cow.....	1280	1·3028	29·76	70·24	1·64	8·24	51·80
"	36535	1·3014	28·04	71·96	1·56	6·96	55·32
"	42508	1·3034	28·28	71·72	1·64	8·24	53·52
"	44225	1·3144	27·32	72·68	1·54	8·32	53·60
"	44728	1·3179	27·88	72·12	1·54	7·32	55·48
"	44737	1·3103	28·20	71·80	1·42	8·30	53·12
"	44741	1·3034	29·04	70·96	1·64	8·16	52·96
"	44752	1·2960	32·36	67·64	1·60	7·48	50·52
"	44753	1·3014	28·88	71·12	1·50	8·80	52·12
"	Means....	1·3057	28·86	71·14	1·56	7·98	53·16
Sweet's Pride.....	41925	1·3183	27·28	72·72	1·82	8·28	54·80
White Star.....	39894	1·3104	29·60	70·40	1·86	7·96	54·52

APPENDIX

MILK AND ITS PRODUCTS.

1. *Milk*, unless otherwise specified, is the fresh, clean and unaltered product, obtained by the complete, uninterrupted milking, under proper sanitary conditions, of one or more healthy cows, properly fed and kept, excluding that obtained within two weeks before and one week after calving, and contains not less than three and one quarter (3·25) per cent of milk fat, and not less than eight and one-half (8·50) per cent of milk solids, other than fat.

2. *Skim Milk* is milk from which a part or all of the cream has been removed, and contains not less than eight and one half (8·50 per cent of non-fat, milk solids.

3. *Pasteurized Milk*, is milk that has been heated below boiling, but sufficiently to kill most of the active organisms present; and immediately cooled to 45°F., or lower, and kept at a temperature not higher than 45°F., until delivered to the consumer, at which time it shall not contain more than 10,000 bacteria per cubic centimetre.

NOTE.—Pasteurization should be effected by heating in a closed vessel for not less than twenty minutes at a temperature of 140° to 145° Fah.; or, for not less than fifteen minutes at a temperature of from 145° to 150° Fah. When milk is heated above 150° Fah. certain ferments and other constituents of the milk are more or less altered, and the digestibility of the resultant milk is injuriously affected.

4. *Sterilized Milk*, is milk that has been heated at the temperature of boiling water, or higher, for a length of time sufficient to kill all organisms present; and must be delivered to the consumer in a sterile condition. Sterilized milk shall not be sold, or offered for sale, except in hermetically closed containers, bearing the words 'This milk should be used within twelve (12) hours after opening the container.'

5. *Certified Milk*. Milk sold as certified milk, shall comply with the following requirements:—

- (a) It shall be taken from cows semi-annually subjected to the tuberculin test, and found without reaction.
- (b) It shall contain not more than 10,000 bacteria per cubic centimetre from June to September; and not more than 5,000 bacteria per cubic centimetre from October to May, inclusive.
- (c) It shall be free from blood, pus, or disease-producing organisms.
- (d) It shall be free from disagreeable odour or taste.
- (e) It shall have undergone no pasteurization or sterilization, and be free from chemical preservatives.
- (f) It shall have been cooled to 45°F., within half an hour after milking, and kept at that temperature until delivered to the consumer.
- (g) It shall contain 12 to 13 per cent of milk solids, of which, at least, 3·5 per cent is fat.
- (h) It shall be from a farm whose herd is inspected monthly by the veterinarian, and whose employees are examined monthly by a physician.

NOTE.—It is evident that the weight carried by the term 'certified' will depend upon the character of the organization which assumes responsibility. Doubtless this will usually be a local medical association; but there is nothing to prevent any responsible body of properly qualified persons from undertaking the production of certified milks.

It is difficult to see in what manner the Adulteration Act can be made to apply to the case of certified milk, except in the sense of requiring that a definite food material must be true to name.

The requirements above enumerated are such that their complete fulfilment can only be properly vouched for by a local system of inspection, not provided for by the Adulteration Act; the history of milk certification, in the sense described, suffices to prove the great benefits conferred upon a community which adopts such a method of ensuring a pure product for the use of infants and invalids; and the Department of Inland Revenue, in administering the Adulteration Act, will do everything possible to assist in securing the maintenance of the high standard for certified milk which has been set by medical commissions, as above defined. At the same time, it is recognized that the efficient carrying out of this programme must chiefly rest with the local commission.

6. *Evaporated Milk*, is milk from which a considerable portion of water has been evaporated, and contains not less than 26 per cent of milk solids, and not less than 7·20 per cent milk fat.

7. *Condensed Milk*, is milk from which a considerable portion of water has been evaporated, and to which sugar has been added. It contains not less than 28 per cent of milk solids, and not less than 7·7 per cent, of milk fat.

8. *Condensed Skim Milk* is skim milk from which a considerable portion of water has been evaporated, with or without the addition of sugar.

9. *Buttermilk* is the product that remains when butter is separated from ripened cream, by the usual churning processes; or a similar product, made by the appropriate treatment of skimmed milk.

10. *Goat's Milk, Ewe's Milk, &c.*, are the fresh, clean, lacteal secretions, free from colostrum, obtained by the complete milking of healthy animals other than cows, properly fed and kept, and conform in name to the species of animals from which they are obtained.

CREAM.

1. *Cream* is that portion of milk, rich in milk fat, which rises to the surface of milk on standing, or is separated from it by centrifugal force, is fresh and clean, and contains (unless otherwise specified), not less than eighteen (18) per cent, of milk fat.

2. *When Guaranteed to Contain* another percentage of milk fat than eighteen (18) per cent, it must conform to such guarantee.

3. *Cream* must be entirely free from gelatine, sucrate of lime, gums or other substances added with a view to give density, consistency or apparent thickness to the article.

4. *Cream* must contain no preservatives of any kind, nor any colouring matter, other than is natural to milk.

5. *Evaporated Cream, Clotted Cream, Condensed Cream* or any other preparation purporting to be a special cream, except ice-cream, must conform to the definition of cream, and must contain at least twenty-five (25) per cent of milk fat.

MILK FAT OR BUTTER FAT.

1. *Milk Fat, Butter Fat*, is the fat of milk and has a Reichert-Meisel number not less than twenty-four (24) and a specific gravity not less than $0\cdot905 \frac{40^{\circ}\text{C}}{40^{\circ}\text{C}}$

BUTTER.

1. *Butter* is the clean non-rancid product made by gathering in any manner the fat of fresh or ripened milk or cream into a mass, which also contains a small portion of the other milk constituents, with or without salt, and contains not less than eighty-two and five-tenths (82·5) per cent milk fat, and not more than sixteen (16) per cent, of water. Butter may also contain added colouring matter of harmless character.

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CHEESE.

1. *Cheese* is the sound, solid, and ripened product made from milk or cream by coagulating the casein thereof with rennet or lactic acid, with or without the addition of ripening ferments and seasoning, and contains in the water-free substance, not less than forty-five per cent of milk fat. Cheese may also contain added colouring matter of harmless character.

2. *Skim Milk Cheese* is the sound, solid, and ripened product made from skim milk by coagulating the casein thereof with rennet or lactic acid, with or without the addition of ripening ferments and seasoning.

3. *Goat's Milk Cheese, Ewe's Milk Cheese, &c.*, are the sound, ripened products made from the milks of the animals specified, by coagulating the casein thereof with rennet or lactic acid with or without the addition of ripening ferments and seasoning.

ICE-CREAM.

1. *Ice-Cream* is a frozen product, made from cream and sugar, with or without harmless flavouring and colouring materials, and with or without gelatin, gum tragacanth, or other harmless stiffening materials, in amount less than two (2) per cent; and contains not less than fourteen (14) per cent of milk fat.

2. *Fruit Ice-Cream* is a frozen product, made as described under ice-cream, but containing sound, clean, and mature fruit. It must contain not less than twelve (12) per cent of milk fat.

3. *Nut Ice-Cream*, is a frozen product, made as described under ice-cream, but containing sound, non-rancid nuts. It must contain not less than twelve (12) per cent of milk fat.

MISCELLANEOUS MILK PRODUCTS.

1. *Whey* is the product remaining after the removal of fat and casein from milk in the process of cheese making.

2. *Kumiss* is the product made by the alcoholic fermentation of mare's milk or cow's milk.

3. *Milk Powder* is the soluble powder product made from milk, and contains, unless otherwise specified, not less than ninety-five (95) per cent of milk solids, and not less than twenty-six (26) per cent, of milk fat.

4. *Skim Milk Powder, Separated Milk Powder* is the soluble powder product made from skim milk, and contains not less than ninety-five (95) per cent of milk solids.

A. MCGILL.

Ottawa, April 7, 1910.

APPENDIX D.

BULLETIN No. 209—SPIRITUS MENTHÆ PIPERITÆ.

OTTAWA, June 15, 1910.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR,—I beg to hand you herewith the results of examination of 71 samples of Spirit of Peppermint, purchased throughout Canada in March of this year.

Spiritus Menthæ Piperitæ popularly known as Spirit of Peppermint, is thus prepared according to the British Pharmacopœia (Edn 1898):—

	Imperial.	Metric.
Oil of Peppermint.....	1 fl. ounce	50 cc
Alcohol (90 p.c.).	a sufficient quantity.	

To the oil of p ppermint add enough of the alcohol to form 10 fluid ounces (or 500 cc) of the spirit of peppermint

The spirit of peppermint of the British Pharmacopœia of 1885 contained only one-fifth as much oil of peppermint as the above.

The manufacture is very simple, being merely the solution of a proper quantity of the oil in alcohol of correct strength. Hence we find that spirit of peppermint is usually prepared by the local druggist.

Adulteration may consist in (1) using an adulterated oil of peppermint; (2) using incorrect proportion of oil of peppermint; (3) using alcohol of incorrect strength; (4) using wood alcohol (or methylated spirit) instead of ethyl alcohol; (5) using an ingredient not prescribed by the pharmacopœia, such as a dye.

1. Oil of peppermint is, for various reasons, less liable to adulteration than most essential oils. No special examination of the separated oil has been made, in the case of samples now reported.

2. The oil should constitute one-tenth part by volume of the finished preparation. The method of dilution and separation employed in this work is described by Leach (Food Inspection and Analysis, 2nd Edn. p. 865) and yields a very close approximation to the actual content of oil, as proved by working upon samples prepared in the laboratory. Thirty-one (31) samples, being 44 per cent of the total collection, were found to contain the proper amount of oil of peppermint. The remainder exhibit great carelessness in preparation, and 32 samples contain only 5 per cent of oil, or less than this amount.

3. Alcohol has been approximately determined from the specific gravity of the sample; and exceeds 80 per cent (volume) in 65 samples (92 per cent of the collection).

4. No methyl alcohol is present in any of these samples.

5. Only one sample (38667) is dyed, with an aniline dye. Several samples contain small amounts of turmeric.

It is proper to observe that the above samples were obtained in drug shops, and are, therefore assumed to represent the pharmacopœial preparation.

A spirit or essence of peppermint is used in the kitchen as a flavour in candy making, and for other purposes. Such an article is in reality a flavouring extract, and should not be offered by a druggist, as being identical with the spirit of peppermint of the pharmacopœias. It is possible that samples 38667, 38669, 996, 40417, 42926, 44252, and some others which contain alcohol of distinctly less than prescribed strength, may

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have been intended by the manufacturer, as *flavouring extracts* rather than as pharmacopœial preparations. Indeed, in the case of one of these (No. 42926) the vendor stated that the article sold, was not the spirit of peppermint of the pharmacopœia. This statement, however, was not made until the sale was completed.

It may be permitted to me to observe that the very indefinite and miscellaneous character of the stocks carried in modern drug shops, has the disadvantage of making these less distinctively apothecary shops than was the case formerly. Many modern drug shops might, with equal propriety be classed as candy shops, refreshment counters, tobacconists, &c. That a druggist should carry peppermint flavouring extract, as well as the B. P. article, need cause us no surprise. It would be folly to inveigh against modern innovations, which may be the natural trend of things in course of betterment. But so long as the distinctive name drug shop is retained, I think it not too much to require that the salesman should be familiar with the preparations of the British Pharmacopœia, and that he should not be permitted to supply other than pharmacopœial preparations, when a customer asks for such, under a name recognized by the pharmacopœia. Spirit of peppermint, or *spiritus menthæ piperitæ* is a perfectly definite article, having legally recognized composition, and although its nature is such that no particular danger to health is likely to result from the substitution of a flavouring extract of peppermint, yet the same carelessness which permits the substitution, might, in other cases, be followed by very serious consequences.

It will be noted that many of the samples are labelled as essences. This term is not recognized by the British Pharmacopœia, nor by that of the United States of America. The French Codex Medicamentarius uses the word essence as synonymous with essential oil; thus *Essence de Menthe Poivrée* is equivalent to our *Menthæ piperitæ Oleum*. It would therefore appear to be quite wrong to label spirit of peppermint as an essence. The word is undoubtedly homologous with the term essential oil, if not identical in meaning, and should be so used. In accepting a sample distinctly labelled 'Essence of Peppermint' our inspectors are at fault, unless they were definitely informed by the vendor that the article supplied was so supplied as equivalent to the spirit of peppermint, or *spiritus menthæ piperitæ* which they were instructed to purchase.

This is the first time that the article named has been officially inspected under the Act; and I beg respectfully to recommend the publication of this report as Bulletin 209.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,
Chief Analyst.

BULLETIN No. 209—SPIRITUS MENTHÆ PIPERITÆ.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.				No. of Sample.
				Quantity.	Cents.		Sp. gr. of Sample.	Equivalent in alcohol (By Vol.)	Separated Oil.	Colour, &c.	

DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR

1910.											
Mar.	10	Spiritus Menthæ Piperitæ.	41936	A. A. Thompson, Halifax, N.S.	12 oz.	1.00	Vendor				
"	10	"	41937	M. D. Logan, Halifax, N.S.	12 "	1.00	"	0.8282	91.69	10.0 White	41936
"	10	"	41938	Irwin & Sons, Halifax, N.S.	12 "	90	Vendors	0.8342	89.83	10.0 "	41937
"	10	"	41939	J. S. Coombes & Co., Halifax,	12 "	90	Vendor	0.8328	90.35	10.0 Pale yellowish green.	41938
"	10	"	41940	G. McDougall, Kentville, N.S.	12 "	90	"	0.8290	91.46	10.0 White and turbid.	41939
								0.8338	90.05	10.0 White	41940

DISTRICT OF PRINCE EDWARD ISLAND—THEO. MOORE, INSPECTOR.

Mar.	9	Spiritus Menthæ Piperitæ.	38666	E. Keir, Kensington	12 oz.	90	Vendor	0.8347	90.96	10.0 White	38666
"	10	"	38667	McNeill Drug Co., Summerside	12 "	1.20	Pure Gold Co., Toronto	0.9268	53.81	About Bright green	*38667
"	15	"	38668	H. J. Mabon, Souris	12 "	1.00	Vendor	0.8309	90.90	3.0 Whitish	38668
"	15	"	38669	Dr. A. A. McDonald, Souris	12 "	1.00	Nat. Drug & Chem. Co., Halifax.	0.8783	74.59	5.0 Yellow.	38669
"	17	"	38670	A. W. Reddin, Charlottetown	12 "	1.00	Vendor	0.8483	85.49	About Greenish... 3.5 Yellow	38670

DISTRICT OF NEW BRUNSWICK—J. C. FERGUSON, INSPECTOR.

Mar.	4	Spiritus Menthae Piperitae.	39680	The Nat. Drug & Chem. Ltd., St. John, N.B.	12 oz	1.05	The Nat. Drug & Chem. Co. Ltd., Montreal.	.....	0.8265	92.21	About 3.0	Brownish green.	39680
"	15	"	39681	Chas. A. Burchill, Fredericton, N.B.	12 "	1.20	Vendor	.....	0.8318	90.64	10.0	White	39681
Apr.	5	"	39682	B. J. Sharp, Sussex, N.B.	12 "	90	"	.....	0.8357	89.49	5.0	Pale yellow.	39682
"	5	"	39683	G. M. Fairweather, Sussex, N.B.	12 "	1.00	"	.....	0.8318	90.64	10.0	Greenish yellow.	39683
"	6	"	39684	Acadia Drug Co., Moncton, N.B.	12 "	1.00	Vendors.	.....	0.8364	89.27	5.0	Yellow.	39684

DISTRICT OF QUEBEC—E. BELAND, INSPECTOR.

Mar.	9	Spiritus Menthae Piperitae.	36548	V. Giroux, 16 Rue St. Pierre, Quebec.	12 oz	1.20	Vendor	.....	0.8451	86.58	10.0	White	36548
"	9	"	36549	G. P. Plamondon, 122 Rue St. Joseph, Quebec.	12 "	1.20	"	.....	0.8250	92.66	5.0	Yellowish white.	36549
"	9	"	36550	W. B. Roger, 44 Rue de la Fa-brique, Quebec.	12 "	1.20	"	.....	0.8228	93.20	2.0	White	36550
"	9	"	36551	Lachevrotiere, 224 Rue St. Jean, Quebec.	12 "	1.20	"	.....	0.8410	87.85	5.0	"	36551
"	9	"	36552	C. T. Delisle, 359½ Rue St. Jean, Quebec.	12 "	1.20	"	.....	0.8405	88.00	10.0	"	36552

DISTRICT OF ST. HYACINTHE—J. C. ROULEAU, INSPECTOR.

Mar.	9	Spiritus Menthae Piperitae.	995	Pharmacie Massicotte ville.	12 oz	1.50	Vendors	.....	0.8288	91.52	7.0	White	995
"	10	"	996	Pharmacie Chagnon, Sherbrooke	12 "	85	"	.....	0.9067	62.93	3.0	"	996
"	15	"	997	Dr. Verdun, Granby	12 "	90	Vendor	.....	0.8348	89.75	3.0	"	997
"	16	"	998	G. H. Johnston, Cowansville	12 "	1.00	"	.....	0.8573	82.44	10.0	Pale yellow.	998
"	18	"	999	Dr. Viger, St. Hyacinthe	12 "	90	"	.....	0.8341	89.96	7.0	White	999

* Aniline dye present.

BULLETIN No. 209—SPIRITUS MENTHÆ PIPERITÆ.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.				No. of Sample.
				Quantity.	Cents.		Sp. gr. of Sample.	Equivalent in alcohol (By Vol).	Separated Oil.	Colour, &c.	

DISTRICT OF MONTREAL—J. J. COSTIGAN, INSPECTOR.

1910.											
Mar.	3 Spiritus Menthæ Piperitæ.	40417	Quebecville & Guerin, 397 St. 12 oz.	60	Vendors.		0.9377	48.37	*	White.	40417
"	"	40418	Antoine St., Montreal. Henri Lanctot, 295 St. Cathar 12 "	75	Vendor.		0.8383	88.67	5.0	"	40418
"	"	40419	ine E., Montreal. E. Vadhoncoeur, 589 St. 12 "	1.00	"		0.8265	91.21	5.0	"	40419
"	"	40420	Catherine E., Montreal. O. T. Pinck, 207 McGill St., 12 "	75	"		0.8253	92.57	2.0	"	40420
"	"	40421	Montreal. E. F. Emery, 607 Notre Dame 12 "	1.25	"		0.8454	86.48	3.0	"	40421
			West, Montreal.								

DISTRICT OF OTTAWA—J. A. RICEY, INSPECTOR.

Mar.	1 Spiritus Menthæ Piperitæ.	42926	R. B. Gray, Pembroke.....	12 oz.	90	Vendor ..	After purchase of Sample. Vendor stated that it was not Spiritus Menthæ Piperitæ but Essence of Peppermint.	0.9183	75.79	About 3.5	Deep yellow	42926
"	"	42927	J. L. Rochester, Ltd., Ottawa	12 "	1.20	Vendors.....		0.8323	90.49	10.0	White.....	42927
"	"	42928	T. Payment, Ottawa.....	12 "	1.20	Vendor.....		0.8286	91.57	10.0	"	42928
"	"	42929	R. S. Harrison, Ottawa.....	12 "	1.00	"		0.8279	91.78	2.0	Pale yellow.	42929
"	"	42930	Jos. P. Valliquette, Ottawa.....	12 "	1.20	"		0.8278	91.81	5.0	White.....	42930

DISTRICT OF KINGSTON—JAS. HOGAN, INSPECTOR.

Mar.	1	Spiritus Menthae Piperitae.	44251	F. Hoag, Kingston.	12 oz.	1.20	Vendor.	.....	0.8311	90.85	10.0	White.	44251
"	1	"	44252	C. S. Prouse, Kingston.	12 "	75	"	.....	0.8902	69.84	2.0	Yellow.	44252
"	1	"	44253	J. McLeod, Kingston.	12 "	1.20	"	.....	0.8334	90.17	5.0	"	44253
"	1	"	44254	A. P. Chown, Kingston.	12 "	1.00	"	.....	0.8480	85.59	2.0	White and cloudy.	44254
"	4	"	44255	McDermid & Jury, Peterboro.	12 "	1.05	Vendors.	.....	0.8289	91.49	7.5	White.	44255

DISTRICT OF TORONTO—H. J. DAGER, INSPECTOR.

Mar.	3	Spiritus Menthae Piperitae.	41492	E. L. L. Doane, 1658 Dundas St. E., W. Toronto.	12 oz.	1.10	Vendor.	.....	Labelled Spts. Menth Pip.	0.8296	91.28	10.0	White.	41492
"	4	"	41493	F. E. York, Aurora.	12 "	1.00	"	.....	Labelled Spts. Menth Pip. B. P.	0.8327	90.38	10.0	"	41493
"	8	"	41494	Hawkins Ltd., John St. South Hamilton.	12 "	75	Vendors.	.....	Labelled Ess. Menth Pip.	0.8275	91.90	2.0	Yellow.	41494
"	16	"	41496	R. M. Black, 15 Ontario St., Catherine's.	12 "	75	Vendor.	.....	Labelled Spts. Menth Pip. Vendor stated strength was 1 in 50.	0.8228	93.29	2.0	Pale yellow.	41496
"	18	"	41497	G. Tamblyn, College Ave., Toronto.	12 "	90	"	.....	Labelled Spts. Menth Pip.	0.8259	92.39	10.0	Green.	41497

DISTRICT OF LONDON—T. KIDD, INSPECTOR.

Mar.	15	Spiritus Menthae	44730	Dunlop Druggist, Goderich.	6 oz.	60	Vendor.	0.8292	91.40	10.0	White.	44730
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DISTRICT OF WINDSOR—JNO. TALBOT, INSPECTOR.

Mar.	5	Essence Peppermint.	42518	W. T. Strong, London.	12 oz.	1.20	Vendor.	0.8303	91.08	7.5	White.	42518
"	7	"	42519	P. J. McGibbon, Sarnia.	12 "	1.05	"	.....	.....	0.8307	90.96	5.0	Pale yellow.	42519
"	7	"	42523	R. J. Geary, Sarnia.	12 "	1.20	"	.....	.....	0.8290	91.46	5.0	"	42523
"	8	"	42530	Jackson & Co., Petrolia.	12 "	1.00	Vendors.	.....	.....	0.8236	93.06	5.0	White.	42530
"	9	"	42538	Geo. A. Small, St. Thomas.	12 "	1.00	Vendor.	.....	.....	0.8252	92.60	5.0	"	42538

* None but smells of peppermint.

BULLETIN No. 209—SPIRITUS MENTHAE PIPERITAE.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.				No. of Sample.
				Quantity.	Cents.		Sp. gr. of Sample.	Equivalent in Alcohol (By Vol.)	Separated Oil.	Colour, &c.	

DISTRICT OF MANITOBA—A. C. LARIVIERE, INSPECTOR.

1910.											
Mar. 16	Spiritus Menthae Piperitae.	43406	R. T. Butchart, Minnedosa . . .	12 oz.	1.50	Vendor	0.8298	91.23	10.0	Yellowish green.	43406
" 16	"	43407	Glenboro Drug Store, Glenboro . . .	12 "	1.25	Norman B. Henery, Glenboro.	0.8284	91.63	10.0	Green	43407
" 21	"	43408	W. Collins & Co., Morden . . .	12 "	1.00	Vendors	0.8275	91.90	5.0	White	43408
" 23	"	43409	P. F. Braund, Winnipeg	12 "	1.20	The Bole Drug Co., Winnipeg.	0.8296	91.28	10.0	"	43409
" 24	"	43410	A. J. Brown & Co., Winnipeg.	12 "	1.20	Vendors.	0.8295	91.31	10.0	"	43410

DISTRICT OF CALGARY—R. W. FLETCHER, INSPECTOR.

Mar. 8	Spiritus Menthae Piperitae.	35677	A. Archibald, Edmonton . . .	12 oz.	1.25	Vendor	0.8302	91.11	8.0	White	35677
" 8	"	35678	Macdonalds Pharmacy, Edmonton. . .	12 "	1.50	D. W. Macdonald, Edmonton.	0.8311	90.85	10.0	"	35678
" 15	"	35679	C. S. Pringle, Medicine Hat . . .	12 "	1.25	Vendor	0.8556	89.52	10.0	"	35679
" 15	"	35680	B. F. Souch, Medicine Hat . . .	12 "	1.25	"	0.8326	90.40	10.0	"	35680
" 16	"	35681	W. Maclean, Calgary	12 "	1.25	"	0.8315	90.73	7.5	Green	35681

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DISTRICT OF VANCOUVER J. F. POWER, INSPECTOR.

Mar. 14	Spiritus Menthae Piperitae.	37843	Marrett & Reid, Vancouver, B.C.	12 oz.	1.25	Vendors.	0.8299	91.20	10.0	White.	37843
" 14	"	37844	Woodwards Dept. Store, Vancouver, B.C.	12 "	1.50	"	0.8318	90.64	8.0	"	37844
" 14	"	37845	Red Cross Drug Store, Vancouver, B.C.	12 "	2.25	Vendor.	0.8307	90.96	4.0	Yellowish green.	37845
" 14	"	37846	Red Raven Drug Store, Vancouver, B.C.	12 "	1.50	"	0.8306	90.99	5.0	"	37846
" 14	"	37847	Wilson's Drug Store, Vancouver, B.C.	12 "	1.50	"	0.8607	81.12	3.0	White	37847

DISTRICT OF VICTORIA D. O'SULLIVAN, INSPECTOR.

Mar. 18	Spiritus Menthae Piperitae.	41669	K. J. Williams, Victoria, B.C.	12 oz.	1.25	Vendor.	0.8306	90.99	10.0	White.	41669
" 18	"	41670	W. S. Terry, Victoria, B.C.	12 "	.75	"	0.8362	89.33	10.0	"	41670
" 18	"	41671	Hall & Co., Victoria, B.C.	12 "	1.50	Vendors.	0.8326	90.40	10.0	"	41671
" 18	"	41672	Wm. Jackson & Co., Victoria, B.C.	12 "	1.25	"	0.8325	90.43	10.0	"	41672
" 18	"	41673	Geo. A. Fraser, Victoria, B.C.	12 "	1.25	Vendor.	0.8335	90.14	10.0	"	41673

NOTE.

Vendors are responsible for the accuracy of information furnished by them to the official Food Inspectors of this Department. If through ignorance, carelessness, or for other cause, they make false statements, involving injury to manufacturers, the manufacturers so injured may exact indemnification by legal process.

A sample of White Pepper, sold by Cameron & Downing, Vankleek Hill, Ont., was stated by them to have been furnished by the Pure Gold Manufacturing Co. Ltd., Toronto. They have since made the following statement :—

“ This certifies that we did not purchase at any time or receive from the Pure Gold Mfg. Co. Ltd., Toronto, White Pepper, and that the reference in Bulletin 203, page 10, sample No. 42801 (Pepper), issued by the Department of Inland Revenue, is inaccurate in stating that the said white pepper was obtained by us from the Pure Gold Mfg. Co. Ltd. ”

Dated at Vankleek Hill this Thirtieth (30) day of June, 1910.

(Signed) CAMERON & DOWNING,

In the presence of D. J. COUTURE.

Mr. John T. Conway of Perth, Ont., acknowledges misstatement to our Inspector of the facts regarding a sample of White Pepper, as follows :—

“ This certifies that I did not purchase or receive from the Pure Gold Mfg. Co. Ltd., Toronto, any White Pepper during the term between December 31st, 1907, to October 1st, 1909, and that the reference in Bulletin 203, page 10, sample No. 42803 (Pepper), issued by the Department of Inland Revenue, is inaccurate in stating that the said White Pepper was obtained by me from the Pure Gold Mfg. Co. Ltd.”

Dated at Perth this Eleventh day of July.

(Signed) JOHN T. CONWAY,

In the presence of A. J. GIBSON.

SESSIONAL PAPER No. 14

APPENDIX E.

BULLETIN No. 210 — LINIMENT OF CHLOROFORM LINIMENTUM CHLOROFORMI

W. J. GERALD, Esq.,

OTTAWA, June 21, 1910.

Deputy Minister of Inland Revenue.

SIR,—I beg to hand you a report upon the examination of 72 samples, purchased throughout Canada in February, March and April of the present year, as Liniment of Chloroform.

The British Pharmacopœia directs this liniment to be prepared from equal parts of Chloroform and Liniment of Camphor. According to Squire's Companion (p.375) it should have a specific gravity of 1.212, and should yield a residue of about 37 per cent. Liniment of Camphor is a solution of 1 part of camphor in 4 parts of Olive Oil. The fixed residue above referred to, as characteristic of Liniment of Chloroform, consists of the Olive Oil introduced with the Liniment of Camphor.

It is sufficiently evident that all the samples now reported have been intended to conform to the requirements of the British Pharmacopœia; (1) in which case the Linimentum Camphoræ employed should be that of the B. P. This is important, since the Linimentum Camphoræ of the U.S.P., although having the same content of camphor, is directed to be made with Cotton Seed Oil instead of Olive Oil.

All but 17 samples of the 72 samples now reported, contain Cotton Seed Oil, and have therefore been prepared with an adulterated Olive Oil, or with the Camphor Liniment of the United States Pharmacopœia.

There can be little doubt that Cotton Seed Oil is a satisfactory substitute for Olive Oil in camphor liniment; nevertheless I am compelled to declare all the samples of Liniment of Chloroform containing Cotton Seed Oil technically adulterated, since the British Pharmacopœia expressly requires Olive Oil to be used, in the preparation of Camphor liniment. This liniment is made with Olive Oil in most European countries; but Portugal employs Almond Oil; Austria, Hungary and Russia, Sesame Oil. The United States of America is the only country authorizing the use of Cotton Seed Oil; and it would appear that, in each country a selection of a suitable oil native to that country, or most easily obtainable in it, is made.

As this is the first time that Liniment of Chloroform has been inspected under the Adulteration Act; and, as further the adulteration found is for the most part of a purely technical kind, and not detrimental to the efficiency of the article as a drug, I would respectfully recommend that no prosecutions be instituted upon the present report.

A word of warning to the drug trade may be permitted. So long as the British Pharmacopœia is our legal standard of reference, its requirements should be followed to the letter. It goes without saying that tampering with drugs is a thing that cannot be tolerated. While some of these, as in the present instance, are not so potent as to make slight variation in composition a matter of great moment, the rule is that danger to health, or even to life, is incurred by failure to maintain exact observance in their preparation. It is due to the physician, as well as to the patient, that the articles he prescribes should absolutely correspond to pharmacopœal requirements.

I would further recommend the publication of this report as Bulletin No 210.

I have the honour to be, Sir, Your obedient servant,

A. MCGILL, *Chief Analyst.*

(1) The Linimentum Chloroformi U.S.P., is prepared from soap liniment and chloroform in the ratio 7:3. Soap Liniment U.S.P., has the following composition:—

	grammes.
Soap (dried and granulated).....	60
Camphor.....	45
Oil of Rosemary.....	10 cc.
Alcohol.....	725 cc.
Water.....	Q.S.

To make..... 1000 cc.

This would give 4.2 per cent residue (soap) and 30 p.c. chloroform to the Linimentum Chloroformi of U.S.P., with 3.15 p.c. camphor, instead of 10 per cent as in B.P.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.
				Quantity.	Cents.	

DISTRICT OF NOVA SCOTIA—

1910.						
Mar.	9	Linimentum Chloroformi.	41931 Nat. Drug & Chem. Co., Halifax.	12 oz.	1.00	Vendor.....
"	9	"	41932 W. F. Porter, Bridgewater, N.S.	12 "	1.30	"
"	9	"	41933 Taylor Drug Co., Bridgewater, N.S.	12 "	1.20	"
"	9	"	41934 J. D. Clark, Kentville.....	12 "	1.00	"
"	9	"	41935 A. V. Rand, Wolfville.....	12 "	1.00	"

DISTRICT OF PRINCE EDWARD ISLAND

Mar.	10	Linimentum Chloroform.	38661 T. N. Enman, Summerside..	12 oz.	1.20	Vendor
"	10	"	38662 A. W. P. Gourlie, Summerside.	12 "	1.00	"
"	12	"	38663 McDonald & McKinnon, Charlottetown.	12 "	1.20	Vendors.....
"	12	"	38664 McKinnon Drug Co., Charlottetown.	12 "	1.20	"
"	15	"	38665 H. Y. Mabon, Souris..	12 "	1.20	Vendor.....

DISTRICT OF NEW BRUNSWICK—

Mar.	4	Linimentum Chloroformi.	39675 Nat. Drug & Chem. Co., Ltd., St. John, N.B.	12 oz.	1.20	Nat. Drug & Chem. Co., Montreal.
"	15	"	39676 R. T. Mack, Fredericton, N.B.	12 "	1.20	Vendor.....
"	16	"	39677 Garden Bros., Woodstock, N.B.	12 "	1.20	Vendors.....
Apr.	6	"	39678 Fairweather Bros, Moncton.	12 "	1.60	"
"	6	"	39679 G. O. Spencer, Moncton.....	12 "	.90	Vendor....

DISTRICT OF QUEBEC—

Mar.	9	Linimentum Chloroformi.	36543 Dr. Gagnou, 30 Rue St. Pierre Quebec.	12 oz.	1.20	Vendor.....
"	9	"	36544 V. Giroux, 16 Rue St. Pierre, Quebec.	12 "	1.20	"
"	9	"	36545 W. B. Roger, 41 Rue de la Fabrique, Quebec.	12 "	1.20	"
"	9	"	36546 T. Dubé, 28 Rue St. Jean, Quebec.	12 "	1.20	"
"	9	"	36547 G. P. Plamondon, 122 Rue St. Joseph, Quebec.	12 "	1.20	"

SESSIONAL PAPER No. 14
LINIMENTUM CHLOROFORMI.

RESULTS OF ANALYSIS.										
Inspector's Report. (Is not an expres- sion of opinion).	Sp. gr. of Sample.	Refraction of		Residual Oil.	Volatile Matter.	Camphor.	Chloroform.	Cotton Seed Oil test.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Sample.	Residue.							

R. J. WAUGH, INSPECTOR.

				p. c.	p. c.	p. c.	p. c.			
.....	1·2091	1·4604	1·4762	33·68	66·32	8·8	57·5	Present	41931	Adulterated with cot- ton seed oil.
Made according to B.P. 1891.	1·2090	1·4611	1·4760	32·18	67·82	8·8	59·0	"	41932	"
.....	1·1962	1·4594	1·4770	33·35	66·65	9·6	57·0	"	41933	"
.....	1·1863	1·4623	1·4753	42·62	57·38	1·6	55·7	"	41934	Adulterated with cot- ton seed oil and too low in camphor
.....	1·2110	1·4581	1·4714	32·39	67·61	8·0	55·6		41935	

THEO. MOORE, INSPECTOR.

.....	1·2071	1·4577	1·4703	32·81	67·19	6·4	60·78	... ..	38661	Too low in camphor.
.....	1·2023	1·4595	1·4742	30·15	69·85	8·0	61·8	Present	38662	Adulterated with cot- ton seed oil.
.....	1·1977	1·4604	1·4742	32·09	67·91	9·6	58·3	"	38663	"
.....	1·2143	1·4592	1·4732	30·02	69·98	8·8	61·1	"	38664	"
.....	1·2047	1·4614	1·4742	33·34	66·66	8·0	58·6	"	38665	"

J. C. FERGUSON, INSPECTOR.

.....	1·1973	1·4594	1·4720	31·63	68·37	8·8	59·5	Present	39675	Adulterated with cot- ton seed oil.
.....	1·2051	1·4601	1·4720	32·31	67·69	9·2	58·4	"	39676	"
.....	1·1722	1·4628	1·4703	36·52	63·48	11·2	52·2	"	39677	"
.....	1·2092	1·4599	1·4723	31·90	68·10	9·8	58·3	"	39678	"
.....	1·2254	1·4602	1·4748	31·04	68·96	7·6	61·3	"	39679	"

E. BELAND, INSPECTOR.

.....	1·2214	1·4606	1·4752	32·64	67·36	6·8	60·5	Present	36543	Adulterated with cot- ton seed oil and cam- phor too low.
.....	1·2039	1·4592	1·4704	34·67	65·33	7·2	58·1	.....	36544	Camphor too low.
.....	1·2229	1·4617	1·4772	29·49	70·51	10·8	59·7	Present	36545	Adulterated with cot- ton seed oil.
.....	1·1186	1·4620	1·4753	35·28	64·72	10·4	54·3	"	36546	"
.....	1·1977	1·4610	1·4748	35·21	64·79	7·2	57·5	"	36547	Adulterated with cot- ton seed oil and low in camphor.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.
				Quantity.	Cents.	

DISTRICT OF ST. HYACINTHE—

1910.						
Mar.	3	Linimentum Chloroformi.	989 F. C. Saunders, Bedford.....	12 oz.	1.25	Vendor
"	8	"	990 Smith & Smith, Nicolet....	12 "	75	Vendors... ..
"	10	"	991 Pharmacie Drolet, Coaticook.	12 "	1.00	Vendor
"	16	"	992 Dr. A. G. H. Berique, Magog	12 "	75	"
"	17	"	993 Pharmacie Guy, St. Jean ..	12 "	1.25	"

DISTRICT OF MONTREAL

Mar.	5	Linimentum Chloroformi.	40422 Henri Lanctot, 295 St. Catherine E., Montreal.	12 oz.	1.00	Vendor
"	5	"	40423 J. A. E. Gauvin, St. Catherine E., Montreal.	12 "	75	"
"	5	"	40424 Arthur Maillet, 621 Craig St., Montreal.	12 "	1.00	"
"	8	"	40425 B. Fox, 168 St. Lawrence B., Montreal.	12 "	1.25	"
"	12	"	40426 O. T. Pinck, 207 McGill St., Montreal.	12 "	75	"

DISTRICT OF OTTAWA—

Feb.	28	Linimentum Chloroformi.	42901 P. J. Nolan, Ottawa.....	12 oz.	1.25	Vendor
Mar.	4	"	42902 The Medical Hall, Corn-wall.	12 "	80	"
"	5	"	42903 W. F. Garland, Ottawa..	12 "	1.20	"
"	9	"	42904 Beattie & Argue, Ottawa....	12 "	1.20	Vendors.....
"	10	"	42905 E. R. DesRosiers, Ottawa...	12 "	1.20	Vendor

SESSIONAL PAPER No. 14
LINIMENTUM CHLOROFORMI.

Inspector's Report. (Is not an expres- sion of opinion).	RESULTS OF ANALYSIS.								No. of Sample.	Remarks and Opiniou of the Chief Analyst.
	Sp. gr. of Sample.	Refraction of		Residual Oil.	Volatile Matter.	Camphor.	Chloroform.	Cotton Seed Oil test.		
		Sample.	Residue.							

J. C. ROULEAU, INSPECTOR.

				p. c.	p. c.	p. c.	p. c.			
.....	1.2061	1.4596	1.4700	31.95	68.02	10.9	57.1	.....	989	Genuine.
.....	0.9755	1.4707	1.4733	86.28	13.72	0.0	13.7	Present	990	Adulterated with cot- ton seed oil and con- tains no camphor and too little chloro- form.
.....	1.2099	1.4596	1.4731	32.79	67.21	7.8	59.4	"	991	Adulterated with cot- ton seed oil.
.....	1.2008	1.4610	1.4749	34.80	65.20	7.5	57.7	"	992	"
.....	1.1027	1.4653	1.4735	58.24	41.76	0.0	41.7	"	993	Adulterated with cot- ton seed oil and con- tains no camphor.

J. J. COSTIGAN, INSPECTOR.

.....	1.2063	1.4612	1.4753	35.58	64.42	7.6	56.8	Present	40422	Adulterated with cot- ton seed oil.
.....	1.2068	1.4611	1.4748	34.14	65.86	6.4	59.4	"	40423	Adulterated with cot- ton seed oil and too low in camphor.
.....	1.1662	1.4629	1.4743	43.03	56.97	4.4	52.5	"	40424	"
.....	1.1972	1.4609	1.4757	32.95	67.05	9.6	57.4	"	40425	Adulterated with cot- ton seed oil.
.....	1.1890	1.4613	1.4758	31.62	68.38	4.8	63.5	"	40426	Adulterated with cot- ton seed oil and too low in camphor.

J. A. RICKEY, INSPECTOR.

.....	1.1583	1.4609	1.4700	37.22	62.78	12.0	50.7		42901	Genuine.
After purchase of Sample, Vendor stated it was made with Union Salad Oil.	1.1941	1.4612	1.4775	35.17	64.83	8.0	56.8	Present	42902	Adulterated with cot- ton seed oil.
.....	1.1547	1.4628	1.4738	44.32	55.68	6.0	49.6	"	42903	Adulterated with cot- ton seed oil and low in camphor.
.....	1.2054	1.4604	1.4750	32.61	67.39	9.6	57.7	"	42904	Adulterated with cot- ton seed oil.
.....	1.2103	1.4603	1.4745	36.30	63.70	4.8	58.8	"	42905	Adulterated with cot- ton seed oil and low in camphor.

Date of Collection.		Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.
					Quantity.	Cents.	

DISTRICT OF KINGSTON—

1910.							
Mar.	1	Linimentum Chloroformi.	44246	F. Hoag, Kingston.	12 oz.	1.20	Vendor
"	1	"	44247	C. S. Prouse, Kingston.....	12 "	1.20	"
"	1	"	44248	J. McLeod, Kingston..	12 "	1.20	"
"	1	"	44249	A. P. Chown, Kingston.....	12 "	1.20	"
"	4	"	44250	E. L. Payne, Peterboro.....	12 "	1.00	"

DISTRICT OF TORONTO—

Mar.	2	Linimentum Chloroformi.	41487	A. E. Walton, Queen St, 3 bots. Toronto.	75		Vendor
"	9	"	41488	W. A. Howell, King St., 12 oz. Hamilton.	75		"
"	16	"	41489	A. W. Garner & Co., St. Catharines.	12 "	70	"
"	16	"	41490	W. W. Kerr, Main St., Niagara Falls, S.	12 "	1.20	"
"	18	"	41491	G. Tamblyn, Young St. Toronto.	12 "	1.00	"

DISTRICT OF LONDON—

Mar.	10	Linimentum Chloroformi.	44718	Alexander Steward, Guelph.	3 bots.	75	Vendor
"	12	"	44726	H. M. Myers, Stratford.....	12 oz.	85	"

DISTRICT OF WINDSOR—

Mar.	3	Linimentum Chloroformi.	42510	Anderson & Nelles, London..	12 oz.	1.00	Vendors.....
"	7	"	42522	Clement Drug Co., Sarnia ..	12 "	1.05	"
"	7	"	42528	G. G. Ingersoll, Sarnia.....	12 "	1.00	Vendor
"	8	"	42532	W. H. Dale, Peterboro.. ...	12 "	1.00	"
"	9	"	42537	F. P. Reynolds, St. Thomas.	12 "	1.00	"

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LINIMENTUM CHLOROFORMI.

Inspector's Report. (Is not an expres- sion of opinion).	RESULTS OF ANALYSIS.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. gr. of Sample.	Refraction of		Residual Oil.	Volatile Matter.	Camphor.	Chloroform.	Cotton Seed Oil test.		
		Sample.	Residue.							

JAS. HOGAN, INSPECTOR.

				p. c.	p. c.	p. c.	p. c.			
.....	1.2073	1.4590	1.4747	34.84	65.16	8.0	57.1	Present	44246	Adulterated with cot- ton seed oil.
.....	1.2133	1.4617	1.4753	32.65	67.35	7.2	60.1	"	44247	Adulterated and low in camphor.
.....	1.1463	1.4612	1.4696	38.40	61.60	14.2	47.4	.....	44248	Genuine, and rather high in camphor.
.....	1.1535	1.4618	1.4751	35.11	64.89	13.6	51.2	Present	44249	Adulterated with cot- ton seed oil and rather high in cam- phor.
.....	1.1535	1.4597	1.4700	35.75	64.25	11.2	53.0	.....	44250	Genuine.

H. J. DAGER, INSPECTOR.

.....	1.2128	1.4597	1.4750	31.84	68.16	8.0	60.1	Present	41487	Adulterated with cot- ton seed oil.
.....	1.1965	1.4608	1.4738	40.19	59.81	1.6	58.2	"	41488	Adulterated with cot- ton seed oil and too low in camphor.
.....	1.2142	1.4606	1.4747	29.66	70.34	11.2	59.1	"	41489	Adulterated with cot- ton seed oil.
.....	1.1858	1.4618	1.4750	37.28	62.72	7.2	55.5	"	41490	Adulterated with cot- ton seed oil and low in camphor.
.....	1.2004	1.4611	1.4743	37.93	62.07	4.0	58.0	"	41491	"

T. KIDD, INSPECTOR.

.....	1.2120	1.4608	1.4757	31.12	68.88	9.6	59.2	Present	44718	Adulterated with cot- ton seed oil.
.....	1.2326	1.4581	1.4708	28.06	71.94	8.8	63.1		44726	A slight excess of chlo- roform and too little oil.

JNO. TALBOT, INSPECTOR.

.....	1.1921	1.4610	1.4752	30.82	69.18	12.0	57.1	Present	42510	Adulterated with cot- ton seed oil.
.....	1.2130	1.4593	1.4709	30.36	69.64	10.0	59.6	.....	42522	Genuine.
.....	1.2125	1.4589	1.4708	30.82	69.18	9.2	59.9	.....	42528	"
.....	1.2053	1.4598	1.4740	33.51	66.49	7.6	58.8	Present	42532	Adulterated with cot- ton seed oil.
.....	1.2121	1.4596	1.4758	30.68	69.32	10.0	59.3	"	42537	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.
				Quantity.	Cents.	

DISTRICT OF MANITOBA—

1910.						
Mar. 16	Linimentum Chloroformi.	43401	The Speer Stevenson Co, Minnedosa.	12 oz.	75	Vendors.....
" 18	"	43402	Norman B. Henery, Glenboro	12 "	1.40	Vendor
" 21	"	43403	The Morden Pharmacy, Morden.	12 "	1.25	"
" 23	"	43404	P. F. Braund, Winnipeg....	12 "	1.20	The Bole Drug Co., Winnipeg.
" 23	"	43405	Austins Drug Store, Winnipeg.	12 "	1.80	Vendor

DISTRICT OF CALGARY—

Mar. 8	Linimentum Chloroformi.	35672	A. Archibald, Edmonton....	12 oz.	75	Vendor
" 15	"	35673	C. S. Pringle, Medicine Hat.	12 "	75	"
" 15	"	35674	E. M. Cawker, Medicine Hat	12 "	1.00	"
" 15	"	35675	B. F. Souch, Medicine Hat..	12 "	75	"
" 15	"	35676	W. Maclean, Calgary.....	12 "	75	"

DISTRICT OF VANCOUVER—

Mar. 12	Linimentum Chloroformi.	37838	Wood's Pharmacy, Vancouver, B.C.	12 oz.	1.50	Vendor
" 12	"	37839	Campbell Burns Drug Co., Vancouver, B.C.	12 "	1.50	Vendors.....
" 12	"	37840	W. E. Law, Granville St., Vancouver, B.C.	12 "	1.50	Vendor
" 12	"	37841	H. W. Ferguson, Vancouver, B.C.	12 "	1.50	"
" 12	"	37842	W. Harrison, Granville St., Vancouver, B.C.	12 "	1.50	"

DISTRICT OF VICTORIA—

Mar. 18	Linimentum Chloroformi.	41664	F. J. Williams, Victoria, B.C	12 oz.	1.50	Vendor ...
" 18	"	41665	W. S. Terry, Victoria, B.C..	12 "	1.00	"
" 18	"	41666	Hall & Co., Victoria, B.C....	12 "	1.50	Vendors.....
" 18	"	41667	Wm. Jackson & Co., Victoria, B.C.	12 "	1.50	"
" 18	"	41668	Geo. A. Fraser, Victoria, B.C	12 "	1.50	Vendor ...

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LINIMENTUM CHLOROFORMI.

Inspector's Report. (Is not an expres- sion of opinion).	RESULTS OF ANALYSIS.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. gr. of Sample.	Refraction of		Residual Oil.	Volatile Matter.	Camphor.	Chloroform.	Cotton Seed Oil test.		
		Sample.	Residue.							

A. C. LARIVIERE, INSPECTOR.

				p. c.	p. c.	p. c.	p. c.			
.....	1.0649	1.4513	1.4698	44.21	55.79	8.6	47.1	.....	43401	Genuine.
.....	1.2328	1.4579	1.4698	32.15	67.85	2.4	65.4	.....	43402	Too low in camphor.
.....	1.1730	1.4619	1.4750	32.59	67.41	15.2	52.2	Present	43403	Adulterated with cot- ton seed oil and ex- cess camphor.
.....	1.1425	1.4618	1.4700	40.35	59.65	12.4	47.2	.....	43404	Genuine.
.....	1.1541	1.4633	1.4752	36.56	63.44	15.2	48.2	Present	43405	Adulterated with cot- ton seed oil and ex- cess of camphor.

R. W. FLETCHER, INSPECTOR.

.....	1.1903	1.4607	1.4721	33.77	66.23	10.4	55.8	Present.	35672	Adulterated with cot- ton seed oil.
.....	1.2071	1.4612	1.4750	31.82	68.18	9.6	58.5	"	35673	"
.....	1.2011	1.4612	1.4734	33.15	68.85	9.2	57.6	"	35674	"
.....	1.1839	1.4603	1.4695	33.29	66.71	8.8	57.9	.....	35675	Genuine.
.....	1.1524	1.4630	1.4737	42.84	57.16	10.0	47.1	Present.	35676	Adulterated with cot- ton seed oil.

J. F. POWER, INSPECTOR.

.....	1.2091	1.4609	1.4752	33.43	66.57	7.6	58.9	Present.	37838	Adulterated with cot- ton seed oil.
.....	1.1726	1.4607	1.4703	34.83	65.17	13.2	51.9	.....	37839	Genuine. Somewhat high in camphor con- tent.
.....	1.1269	1.4639	1.4733	48.48	51.52	6.4	45.1	Present.	37840	Adulterated with cot- ton seed oil and low in camphor.
.....	1.2160	1.4605	1.4747	34.79	65.21	4.8	60.4	"	37841	"
.....	1.1518	1.4613	1.4696	39.04	60.96	11.2	49.7	.....	37842	Genuine.

D. O'SULLIVAN, INSPECTOR.

.....	1.2158	1.4587	1.4700	34.18	65.82	4.8	61.0	.....	41664	Low in camphor.
.....	1.1406	1.4634	1.4748	35.48	64.52	6.0	58.5	Present.	41665	Low in camphor and contains cotton seed oil.
.....	1.1827	1.4610	1.4740	49.19	50.81	2.4	48.4	"	41666	"
.....	1.1666	1.4623	1.4750	39.59	60.41	8.8	51.6	"	41667	Adulterated with cot- ton seed oil.
.....	1.1264	1.4646	1.4743	42.61	57.39	13.6	43.7	"	41668	Adulterated and some- what high in campho

APPENDIX F.

BULLETIN No. 211—OIL OF TURPENTINE.

OTTAWA, July 14, 1910.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR :—*Oil of Turpentine* (Terebinthinæ Oleum) commonly called turpentine, is a drug recognized by the British and other Pharmacopœias, and therefore comes within the scope of the Adulteration Act. It is a question whether the article, as employed in the arts, should be required to meet pharmacopœal specifications; but until this point is settled, we must hold that "turpentine" means the turpentine of the pharmacopœias.

The British Pharmacopœia (Edn. 1898) thus describes the drug, "Limpid, colourless, with a strong peculiar odour which varies in the different kinds of oil, and a pungent and somewhat bitter taste. It is soluble in its own weight of glacial acetic acid. It commences to boil at about 320°F. (160°C.) and almost entirely distils below 356°F. (180°C.), little or no residue remaining".

Squire's Companion (Edn. 1908) comments as follows;—"Rectified Oil of Turpentine has a sp. gr. of 0.860 to 0.880; the B.P. does not give a sp. gr.; the U.S.P. states 0.860 to 0.870 at 25°C. (77°F.); the P.G. 0.860 to 0.870. It boils at about 156°C. (312.8°F.), which is the figure given in the B.P. The P.G. states that it distils completely between 155° and 162°C. (311° and 323.6°F.). The B.P. states that it should distil almost entirely below 180°C. (356°F.). *This temperature is considered (C. D. '98, ii. 55) to be too high, boiling at about 155° C. (311° F.) and at least 80 p. c. distilling below 165° C. (329° F.) would have been better.*—The U.S.P. requires that the larger part of the oil should pass over between 155° and 162° C. (311° and 323.6° F.). The optical rotation of the oil may be either dextrogyrate or lævogyrate. French Oil of Turpentine is strongly laevorotatory (−20° to −40° in a tube of 100mm. length). American Oil of Turpentine is dextrogyrate, the rotation usually varying from +9° to +14°. A 52 lb. quantity when fractionally distilled (C.D. '00, ii, 174) yielded up to 162.5° C. (324.5° F.) a distillate (91.2 p. c. of the whole) which was entirely dextrogyrate and from 162.5° to 190°C. (324.5° to 374°F.) fractions (amounting to 8.52 p. c.) which increased in laevorotation with the boiling point, namely from −0.8° to −10.3°. Neither the B.P. the U.S.P. nor the P.G. refers to the optical rotation. It is officially stated to be soluble in its own volume of Glacial Acetic Acid. This test has been shown (P.J. '02, i. 503) by the author and C. M. Caines to be practically *of no value* as a test for Oil of Turpentine, although useful as a test of the strength of Glacial Acetic Acid. An acid conforming strictly to the B.P. titration test (which requires a definite figure) cannot be expected to form a clear solution with all samples of Oil of Turpentine when mixed in equal volumes. Commercial samples of Glacial Acetic Acid which require more than the B.P. figure will mix readily without subsequent separation, and most of the commercial acids give a higher figure than the B.P. With such samples of Oil of Turpentine as had up to that time been examined the mixture of any of them in equal volumes with Glacial Acetic Acid, temperature 14.4° to 16.7° C. (58° to 62° F.) became a delicate test for a strength of 99.5 p. c. acid or stronger. The test is also referred to under Acidum Aceticum Glaciale.

The more generally occurring impurities are Petroleum, Paraffin Oils, Rosin, Rosin Oil, Petroleum Benzin, Kerosene Oil or similar hydrocarbons. Petroleum, Paraffin Oils or Rosin, if present, may be detected by the residue test. Kerosene or Rosin Oil, if

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present, by the evaporation test. Petroleum Benzin, Kerosene and similar hydrocarbons by the Sulphuric Acid test, each of which tests is described in small type below. Some work done in the laboratory of the Canadian Inland Revenue Department (C.D. '02, i.955) has resulted in the following definition of Oil of Turpentine, which must, however, be regarded as provisional, and subject to correction and amplification; it should be colourless, in thin layers, clear, but made decidedly opaque by shaking with 1.0 p. c. of water, and giving an opaque distillate of one-tenth volume which settles clear in a few hours. The peculiar and characteristic odour quite distinct from that of Gasolene, Rosin Oil, or Acetone. It has a sp. gr. between 0.860 and 0.880 (usually about 0.870). Samples which have been long exposed to the air have a higher density. The first 10 p. c. fraction has a sp. gr. of between 0.856 and 0.870 (usually about 0.860); the residual tenth should not exceed 0.900. The boiling point should lie between 154° and 158° C. (309.2° and 316.4° F.); nine-tenths should distil below 180° C. (356° F.). Fixed residue should not exceed 2 p. c., flash point about 32° C. (89.6° F.). The optical activity of the first fraction should increase in a plus direction by oxidation. The refractive index at 20° C. should lie between 1.4667 and 1.4722, that of the first fraction should not exceed 1.470. Moistened Starch Iodide paper should become blue when suspended over Turpentine exposed to the air, free Bromine in solution should be decolorised. Strong Sulphuric Acid should polymerize and char the sample at a boiling temperature, a rise of temperature should result on mixing with Sulphuric Acid."

The above may be taken as summing up all that is known of commercial turpentine, and it is amply evident that definitions and limits of variability are much needed. Reference is made to work done in this laboratory in 1901 (Bulletin 79). This consisted in an examination of 50 samples of commercial turpentine, having regard to the following properties:—

Physical characters—1. Colour.

2. Clearness.

3. Odor.

4. Taste.

5. Density.

6. Boiling point.

7. Volatility.

8. Vapor density.

9. Flash point.

10. Viscosity.

11. Solubility.

12. Solvent power.

13. Rotatory power for polarized light.

14. Refraction.

15. Fluorescence.

16. Oxidisability.

Chemical characters—17. Bromine absorption.

18. Rise of temperature with sulphuric acid.

The results of the examination referred to were summed up as follows, and having regard to a definition of Oil of Turpentine:—"Oil of Turpentine is a liquid, *colourless*—in thin layers, and having a yellow-red tint, equivalent to about 1 unit of yellow and 0.1 unit of red (Lovibond scale) when viewed in a column 2 dm. long. *Clear*—but made decidedly opaque by shaking with 0.1 per cent, water, and giving an *opaque*—distillate of one-tenth volume, which settles clear in a few hours. *Odour*—peculiar and characteristic, quite distinct from that of gasoline, rosin oil or acetone, and capable of disguising these odours to the extent of 10 per cent, admixture. *Density*—between 0.860 and 0.880, (usually about 0.870) but samples which have been long exposed to air may have a higher density. The *first fraction*—of one-tenth volume, has a density between 0.856 and 0.870 (usually about 0.860). The *residual tenth*—should not exceed 0.900. The *boiling point*—should lie between 154° and 158° C., and nine-tenths should distil below 180° C. The *fixed residue*—on evaporating over boiling water in a 4 inch,

hemispherical dish, should not exceed 2 per cent. The viscosity, at 20° C., should be nearly 1.230 (water 1.000) McGill viscosimeter. *Flash point*—should be about 32° C. (Abel instrument). Should *dissolve*—completely in an equal volume of glacial acetic acid, and the first fraction should similarly dissolve. A *saturated solution*—of asphaltum should not be rendered translucent by dilution to ten volumes. (This test is best made by comparison with a sample of known purity.) The *optical activity*—of the first fraction should increase in a + direction by oxidation. The *refractive index*—at 20° C. should lie between 1.4667 and 1.4722. That of the first fraction should not exceed 1.4700. Moistened iodide of starch paper should become blue when suspended over turpentine exposed to air. *Free Bromine*—in solution (see section 17) should be decolorized. *Strong sulphuric acid*—should polymerize and char the sample at a boiling temperature. A *rise of temperature*—(see sec. 18), should result on mixing with sulphuric acid.

Experience since 1901 has shown that our knowledge of the article Commercial Turpentine is yet too indefinite and uncertain to be satisfactory. This is in part due to the nature and origin of the substance as known to commerce in the past. Turpentine is not a definite chemical substance, having a constant composition. It is the more volatile portions of the oleoresins derived from a number of different varieties of *Pinus*. Of later years, owing to the growing scarcity of pine forests, advantage has been taken of the fact that, by treatment in the dry way, or with superheated steam, a volatile product resembling turpentine is obtainable from pine, (roots, chips and other waste material). This article, commercially distinguished as wood-turpentine, (the original substance being called gum turpentine) resembles turpentine, and is even identical with turpentine in so many respects, that it has been found easy to market it under the same name.

But wood-turpentine, although having much in common with true turpentine is not really identical with it. This fact appears to be well known to, and recognized by the trade; and some of the chemical differences between the two are pointed out in a paper by me, contributed to the Society of Chemical Industry. (See Jour. Soc. Chem. Indust., Vol. XXVI (1907) p. 847).

An important paper on turpentine was read before the Society of Public Analysts (London, England) by J. H. Coste, F.I.C. in 1908, and is published in the Analyst, Vol. XXXIII, p. 219. Speaking of turpentine Mr. Coste says:—"There is no doubt that much of the turpentine shipped to Europe from the United States is of a very different character from that which a few years ago was recognized as typical American Turpentine."

Another sophistication of turpentine consists in the addition to it of certain petroleum fractions, which are doubtless sold to greater profit in this than in any other way. The literature of this subject is very voluminous, and scattered. It is, moreover, very contradictory; many writers claiming that, as a solvent for use in paints and varnishes, the various substitutes for turpentine are little, if at all, inferior to the genuine article. It remains, however, that the name turpentine is supposed to stand for a certain and definite product; and it should be possible so to describe that product as to be able with certainty to distinguish between turpentine and its substitutes or imitations.

The report now submitted contains results obtained in the analysis of 75 samples of turpentine purchased in the markets of the Dominion, and of ten (10) samples, furnished by importers and others. These last are indicated by letters. Table I (parts 1 and 2) gives the source of the samples, and the results of analysis. Table II makes a selection of 29 samples which are apparently genuine gum turpentine as judged by the whole results of analysis.

In connection with the results here shown it is important to note as follows:—

1. The percentage weight of Iodine taken up, approximates 370; which number was regarded as typical by Worstall (Jour. Soc. Chem. Indust., 1904, 302), and corroborated by myself (J.S.C.I. XXVI) the Hübl solution being employed.

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2. The undissolved (unpolymerized) residue, on treatment of 10 cc with 40 cc., of a sulphuric acid containing 20 per cent of the fuming acid, seldom exceeds 10 per cent of the sample.
3. The refractive index of this residue lies between 1.4950 and 1.5000 ; read at 20° C.
4. The refractive index of the sample is about 1.4700 at 20° C.
5. The specific gravity (15.5°C.) is about 0.870.
6. The initial boiling point is not lower than 150°C. under ordinary pressure ; and the greater part (at least 75 per cent volume) distils below 160°C.
7. The middle fraction of 50 per cent volume, distils between 156° and 159°C., in most samples.
8. Ninety per cent by volume distils below 165° C., in most samples.
9. The refractive index of the second fraction of 25 per cent volume, is between 1.4685 and 1.4700 ; and that of the third fraction of 25 per cent is practically 1.4700.
10. The flash point lies between 31°C. and 34°C.

Table III contains the results of examination of nine (9) samples, furnished by various interested parties, and suspected, for one reason or another, to be surrogate. It is unfortunate that very small quantities were supplied in most cases, hence the record is less complete than could be wished. So far as it goes, it may be noted, in contrast to the general conclusions reached for genuine turpentine, that, (1) the Iodine number is decidedly below 370 ; (2) the unpolymerized residue in the first 7 samples falls within the limit for turpentine, while in I & K, the residue exceeds 40 per cent. (3) The refractive index for the first 7 samples, falls within the limits for turpentine, while samples I & K, show a much lower refraction. (4) The same holds true of the refraction of the sample itself. (5) The specific gravity of the first 5 samples is indistinguishable from that of turpentine ; for samples F & G it is quite too high ; and for K it is abnormally low. (6) Initial boiling point and temperature for distillation of 75 per cent indicate a variation from true turpentine especially notable in samples I & K. (7) The limits of temperature for distillation of middle fraction of 50 p. c., are pronouncedly different from those for genuine turpentine. (8) Limit temperature for 90 per cent distillate is too high. (9) The flash point does not serve to distinguish from genuine turpentine.

This study, interpreted in the light of our knowledge of wood-turpentine and of petroleum, justifies the conclusions that the first seven samples in this table (A to G) are essentially wood turpentines ; while samples I & K, are mixtures containing considerable amounts of petroleums.

This report shows that a considerable amount of adulterated turpentine is found on the market in Canada. The adulteration chiefly consists in additions of petroleum fractions ; but, in some instances it is due to substitution by, or addition of wood turpentine.

Wood turpentine is apparently more closely related to turpentine than are petroleums. It is claimed that certain substitutes for turpentine have equal value with the genuine article, for use in the arts. With this aspect of the question, we have nothing to do. It is the duty of this Department to require that nothing else than true turpentine shall be offered for sale, or sold, under that name. The sale of wood turpentine or of petroleum mixtures for paint and varnish manufacture, and for other uses in the arts, may possibly be desirable ; but such articles should not be sold under the name turpentine.

I believe that the information herein given will be helpful in enabling a clear and workable definition of turpentine to be made ; and I beg to recommend its publication as Bulletin No. 211.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,

Chief Analyst.

TABLE I, (PART I) BULL. 211—TURPENTINE.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)	No. of Sample.
				Quantity.	Cents.			

DISTRICT OF NOVA SCOTIA R. J. WAUGH, INSPECTOR.

1910.								
Mar.	Turpentine.....	41941	Wm. Robertson & Son, Halifax, N.S.	3 pts..	50	Carolina Pine Product Co., Cleveland, Ohio.	.....	41941
"	"	41942	A. M. Bell & Co., Halifax, N.S.	3 " ..	37	Unknown.	Sold as American Turpentine	41942
"	"	41943	Crowell Bros., Halifax, N.S.	3 " ..	35	W. B. Dicks, London, Eng.	.....	41943
"	"	41944	Martin & Moore, Halifax, N.S.	3 " ..	36	Imperial Oil Co., Halifax	Georgia Pure Turpentine....	41944
"	"	41945	A. L. Melvin & Co., Halifax, N.S.	3 " ..	35	Carolina Pine Product Co., Halifax, N.S.	.....	41945

DISTRICT OF PRINCE EDWARD ISLAND—THEO. MOORE, INSPECTOR.

Mar.	7 Turpentine.....	38626	Stanley Shaw & Reardon, Charlottetown.	3 pts..	37	A. Ramsay & Co., Montreal	.....	38626
"	9 "	38627	R. Tuplin & Co., Kensington	3 " ..	38	Carolina Pine Product Co., Cleveland Ohio.	.....	38627
"	10 "	38628	R. T. Holman Ltd., Summerside	3 " ..	40	"	.....	38628
"	12 "	38629	S. W. Crabbe, Charlottetown	3 " ..	40	A. Jameison & Co., Montreal	.....	38629
"	15 "	38630	Sterns Bros., Souris	3 " ..	40	Rogers Hardware Co., Charlottetown	.....	38630

DISTRICT OF NEW BRUNSWICK J. C. FERGUSON, INSPECTOR.

Mar.	3	Turpentine.....	39640	Robertson, Foster & Smith, Ltd., St. John, N.B.	45	Standard Oil Co., N.Y., De B. Carrithe Agent, St. John.	.....	39640
"	7	"	39641	W. H. Thorne & Co., Ltd., St. John, N.B.	45	De B. Carrithe, St. John, N.B.	.....	39641
"	9	"	39642	T. McAvity & Sons Ltd., St. John, N.B.	60	North Carolina Pine Varnish Co., U.S.A.	.....	39642
"	15	"	39643	Tweeddale & Co., Fredericton, N.B.	45	Imperial Oil Co., St. John, N.B.	.....	39643
Apr.	6	"	39644	Sumner Co., Moncton, N.B.	30	Carolina Pine Product Co., Montreal.	.....	39644

DISTRICT OF QUEBEC—E. BELAND, INSPECTOR.

Mar.	8	Turpentine.....	36523	T. M. Tardivel, 34 Rue Desjardine, Quebec.	45	The Georgia Turpentine Co., Montreal.	.....	36523
"	8	"	36524	B. Leonard, 53 Rue St. Jean, Quebec.	36	Unknown.	.....	36524
"	8	"	36525	Marier & Tramblay, 71 Rue du Pont, Quebec.	39	Carolina Ripe Production.	.....	36525
"	8	"	36526	Simard & Frère, 270 Rue St. Joseph, Quebec.	42	Unknown.	.....	36526
"	8	"	36527	La Comp. Gauthier, 297 Rue St. Joseph, Quebec.	45	Imperial Oil Co., Quebec.	.....	36527

DISTRICT OF ST. HYACINTHE J. C. ROULEAU, INSPECTOR.

Mar.	3	Turpentine.....	1256	J. Senesac, Stanbridge Station.	20	Unknown	.....	1256
"	3	"	1257	Hill & Depatie, St. Armand	45	Sherwin Williams, Montreal.	.....	1257
"	7	"	1258	G. E. N. Pepin, Drummondville	40	Imperial Oil Co., Montreal.	.....	1258
"	7	"	1259	A. Daveluy & fils, Daveluyville	25	Frothering & Workman	.....	1259
	18	"	1260	S. Bourgeois & Cie, St. Hyacinthe	33	Carolina Pine Products Co., Savannah, Ga.	.....	1260

TABLE I, (PART I) BULL. 211—TURPENTINE—Continued.

Date of Collection.	Nature of Sample.	Name and Address of Vendor.	Cost.		Inspector's Report. (Is not an expression of opinion).	No. of Sample.
			Quantity.	Cents.		

DISTRICT OF MONTREAL—J. J. COSTIGAN, INSPECTOR.

1910.						
Mar. 9	Turpentine.....	40142 B. Beaulien, St. Jerome, P.Q.....	3 pts..	45	Imperial Oil Co., Montreal.....	40142
" 9	"	40143 C. E. Laflamme, St. Jerome, P.Q....	3 " ..	45	.....	40143
" 14	"	40144 Wall Bros., 67 Bleury St., Montreal..	3 " ..	40	Canada Paint Co., Ltd., Montreal..	40144
" 14	"	40145 E. D. Collerette & Co., 95 Bleury St., Montreal.	3 " ..	45	.....	40145
" 14	"	40146 Beauvais et frere, 336 St. Lawrence B., Montreal.	3 " ..	40	.....	40146

DISTRICT OF OTTAWA—J. A. RICEY, INSPECTOR.

Mar. 15	Turpentine.....	42942 George Hignan Son & Co., Ottawa..	3 bots.	45	¹⁹¹⁴ Ottawa Paint Works, Ottawa....	Labelled Pure Spirits of Turpentine.	42942
" 15	"	42943 William Howe, Rideau St., Ottawa..	3 " ..	25	Southern States Turpentine Co., Cleveland, Ohio.	.....	42943
" 15	"	42944 J. B. Duford, Ottawa. . .	3 " ..	38	W. G. Charleson, Ottawa.....	.....	42944
" 15	"	42945 The Ottawa Paint Works, Ottawa....	3 " ..	38	Am. Naval Stores Co., New York....	Labelled Pure Spirits of Turpentine.	42945
" 15	"	42946 John Storr, Ottawa	3 " ..	38	Southern States Turpentine Co., Cleveland, Ohio.	.....	42946

DISTRICT OF KINGSTON—JAS. HOGAN, INSPECTOR.

14 Mar.	1	Turpentine.....	44201	J. Nugent, Kingst n.....	3 pts.	50	Queen City Oil Co., Kingstor.....	.....	44201
"	1	"	44202	J. B. Bunt, Kingston.....	3 " "	45	A. Chown, Kingston.....	.....	44202
"	1	"	44203	W. Mitchell, Kingston..	3 " "	50	North Carolina Production Co., Mon- treal.	.....	44203
"	1	"	44205	A. Chown & Co., Kingston..	3 " "	35	New York Agent, Direct from Ha- vanna.	.....	44205
"	1	"	44256	A. B. Dalton & Sons, Kingston...	3 " "	40	Am. Navy Stores New York .....	.....	44256

DISTRICT OF TORONTO H. J. DAGER, INSPECTOR.

Mar.	2	Turpentine.....	41399	Geo. Pearsall & Son, 417 Yonge St., 3 pts. Toronto.	45	The Queen City Oil Co., Ltd., Toronto.	.....	41399
"	2	"	41400	W. C. McFarland, 391-393 Parlia- ment St., Toronto.	50	J. H. Morrin & Co., Toronto.....	.....	41400
"	4	"	41497	J. M. B. Stephens, New Market....	60	Brandram & Henderson, Montreal.	.....	41497
"	7	"	41498	Thomas Ramsay, Market Square, 3 " " Hamilton.	37	Carolina Pine Products Co., Cleve- land, Ohio.	.....	41498
"	8	"	41499	Alexander Hardware Co., Ltd., King 3 " " St. E., Hamilton.	40	A. Ramsay & Son, Montreal.....	.....	41499

DISTRICT OF LONDON—T. KIDD, INSPECTOR.

Mar.	15	Turpentine.....	44731	— Howell, Goderich	1 pt.	20	Canada Paint Co., .....	.....	44731
"	18	"	44733	Matt. Williams, Seaforth.	3 bots.	30	Gorman & Eckert, London .....	.....	44733
Apr.	11	"	44736	W. Bailey, Mitchell	3 " "	30	Unknown ..	.....	44736
"	14	"	44745	Will. Bartlett, St. Mary's.....	1½ pt.	15	Sanders & Percy, Toronto.....	.....	44745
"	19	"	44748	J. Minnes, Hardware Merchant, 1 Fergus.	1 pt.	20	"	.....	44748

TABLE I, (PART I) BULL. 211—TURPENTINE—Continued.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Inspector's Report. (In not an expression of opinion.)	No. of Sample.
				Quantity.	Cents.		
DISTRICT OF WINDSOR—JNO. TALBOT, INSPECTOR.							
1910.							
Mar. 2	Turpentine.....	42501	Kilpatrick Bros., London, Ont.....	3 pts.	30	Hobb's Hardware Co., London, Ont.....	42501
" 2	"	42502	Robert Parson, London, Ont.....	3 " ..	30	D. H. Howden Co., London, Ont.....	42502
" 2	"	42503	McLean Hardware Co., London, Ont.....	3 " ..	30	D. H. Howden Co., London, Ont.....	42503
" 2	"	42504	Purdow Hardware Co., London, Ont.....	3 " ..	30	Am. Naval Stores, Detroit.....	42504
" 2	"	42505	W, B. Gillespie, London, Ont.	3 " ..	30	D. H. Howden & Co., London.....	42505
DISTRICT OF MANITOBA—A. C. LARIVIERE, INSPECTOR.							
Mar. 15	Turpentine.....	39871	Linklater Bros. & Elder, Winnipeg.....	3 pts.	50	G. F. Stephens & Co., Winnipeg.....	39871
" 15	"	39872	C. Tadmam, Winnipeg.....	3 " ..	50	"	39872
" 15	"	39873	The Bee Hive, Winnipeg.....	3 " ..	45	"	39873
" 15	"	39874	The Lennox Hardware Co., Winnipeg.....	3 " ..	50	Unknown	39874
" 15	"	39875	Wm. Johnson, Winnipeg.	3 " ..	45	"	39875
DISTRICT OF CALGARY—R. W. FLETCHER, INSPECTOR.							
Mar. 15	Turpentine....	35637	J. J. Hewit, Medicine Hat.	3 pts.	60	Canada Paint Co., Montreal.....	35637
" 17	"	35638	Linton & Hall, Calgary.....	3 " ..	60	Imperial Oil Co., Calgary.	35638
" 17	"	35639	Corner Hardware Co., Ltd., Calgary.....	3 " ..	60	Marshall Wells Co., Winnipeg.....	35639

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"	17	"	35640	The J. H. Ashdown Hardware Co., 3 " .. Ltd., Calgary.	60	Imperial Oil Co., Calgary.....	35640
"	18	"	35641	T. R. Stuart & Co., Calgary	60	G. F. Stephens Co., Calgary.....	35641
14							
71							
DISTRICT OF VANCOUVER—J. F. POWER, INSPECTOR.							
Mar. 15	Turpentine.....	37853	J. A. Flett, Vancouver.....	3 pts..	40	Imperial Oil Co., Victoria, B.C	37853
"	"	37854	Wood, Vallance & Leggett, Van- couver.	3 " ..	40	" "	37854
"	"	37855	Fraser Hardware Co., Vancouver....	3 " ..	55	" "	37855
"	"	37856	Abercrombie Hardware Co., Van- couver.	3 " ..	50	" "	37856
"	"	37857	Bonnell Hardware Co., Vancouver ..	3 " ..	55	" "	37857
DISTRICT OF VICTORIA—D. O'SULLIVAN, INSPECTOR.							
Mar. 21	Turpentine	41674	The Staneland Co., Victoria, B.C....	3 pts..	50	Imperial Oil Co.....	41674
"	"	41675	Mellor Bros., Ltd., Victoria, B.C....	3 " ..	60	"	41675
"	"	41676	Melrose Paint Co., Victoria, B.C....	3 " ..	40	"	41676
"	"	41677	J. L. Forrister, Victoria, B.C. . .	3 " ..	45	British Am. Paint Co., Victoria, B.C.	41677
"	"	41678	British Am. Paint Co., Victoria, B.C.	3 " ..	40	Imperial Oil Co., Vancouver, B.C....	41678
"	"	A	"	"	"	"	A
"	"	B	Canada Turpentine Co., per E. Field- ing.	"	"	Steam process, Wood Turpentine.....	B
"	"	C	Canada Turpentine Co., per R. Mun- roe.	"	"	"	C
"	"	D	Cadillac Turpentine Co., per E. Fielding.	"	"	No. 1 Grade Steam Process Wood Turpentine.	D
"	"	E	E. Fielding.....	"	"	Wood Turpentine from Georgia ..	E
"	"	F	"	"	"	"	F
"	"	G	"	"	"	"	G
"	"	H	"	"	"	"	H
"	"	I	"	"	"	"	I
"	"	K	Sumner Co., Moncton, N.B., L. 70451.	"	"	"	K

12 GEORGE V., A. 1912

TABLE I, (PART II) BULL.

RESULTS OF

Name of Inspectoral District.	Number of Sample.	Habl Iodine Number.	Insol. Residue from 10 cc. with 40cc. H ₂ SO ₄ 4 Conc. 1 fum.	Ref. Index 20° of Insoluble Residue.	Ref. Index 20° of Turpentine.	Sp. Gr. 15° of Turpentine.	Distillation Tem. 1st 25 cc. from 100 cc.	2nd 25 cc.	3rd 25 cc.	Next 15 cc.	Ref. Index Fraction 1st 25 cc. Distil- late.
Nova Scotia.....	41941	290.4	3.0	1.4667	1.4668	.8594	150-160	160-165	165-174	175-197	1.4626
	41942	293.4	2.1	1.4687	1.4678	.8634	154-160	160-164	164-173	173-202	1.4644
	41943	303.1	.8	1.4898	1.4720	.8637	159-162	162-164	164-167	167-172	1.4695
	41944	377.5	.65	1.4967	1.4719	.8746	153-157	157-158	158-159	.....	1.4692
	41945	251.5	3.5	1.4643	1.4660	.8576	154-160	160-166	166-174	174-215	1.4621
Prince Edward Island	38626	372.3	.75	1.4994	1.4703	.8710	150-156	156-157	157-158	158-163	1.4680
	38627	223.0	3.85	1.4596	1.4646	.8574	148-158	158-166	166-180	180-227	1.4564
	38628	351.2	1.5	1.4849	1.4692	.8652	154-157	157-158	158-159	159-165	1.4680
	38629	386.9	1.05	1.4996	1.4708	.8684	152-156	156-157	157-158	158-161	1.4687
	38630	369.2	.7	1.4991	1.4717	.8759	154-157	157-158	158-161	161-171	1.4690
New Brunswick.....	39640	335.5	1.35	1.4865	1.4686	.8670	145-156	156-157	158-159	159-164	1.4628
	39641	368.9	.9	1.5006	1.4710	.8718	154-157	157-157	157-159	159-163	1.4690
	39642	363.5	1.3	1.4874	1.4686	.8663	149-155	155-157	157-159	159-163	1.4624
	39643	363.4	1.05	1.4820	1.4688	.8657	145-156	156-158	158-159	.....	1.4619
	39644	200.7	3.6	1.4678	1.4658	.8589	152-159	160-164	164-177	177-210	1.4624
Quebec	36523	330.2	.95	1.4965	1.4714	.8747	152-156	156-158	158-160	160-169	1.4678
	36524	289.6	4.00	1.4483	1.4559	.8366	110-148	148-154	154-158	158-162	1.4322
	36525	295.8	2.65	1.4694	1.4657	.8589	152-158	158-161	161-166	166-178	1.4628
	36526	365.8	1.05	1.5000	1.4706	.8692	153-157	157-158	158-168	158-158	1.4686
	36527	290.8	3.05	1.4524	1.4553	.8339	120-144	144-152	152-157	157-161	1.4356
St. Hyacinthe.	1256	256.2	3.9	1.4652	1.4628	.8607	153-160	160-163	163-172	172-193	1.4582
	1257	365.0	.75	1.4980	1.4714	.8730	154-158	159-158	158-160	160-166	1.4689
	1258	350.3	.85	1.4952	1.4731	.8870	150-157	157-159	159-165	165-210	1.4679
	1259	246.5	3.9	1.4673	1.4655	.8579	154-162	162-167	167-181	181-227	1.4617
	1260	241.2	2.9	1.4481	1.4654	.8576	151-161	161-168	168-177	177-215	1.4587
Montreal	40442	344.1	.65	1.4936	1.4730	.8674	152-157	157-160	160-164	165-205	1.4678
	40443	373.8	.85	1.4997	1.4718	.8735	152-156	156-156	156-160	160-167	1.4681
	40444	355.4	.6	1.4826	1.4700	.8683	150-155	155-156	156-158	158-162	1.4672
	40445	369.1	1.0	1.4903	1.4702	.8707	150-156	156-158	158-159	.....	1.4667
	40446	368.9	1.3	1.4887	1.4687	.8660	152-156	156-157	157-159	159-162	1.4667
Ottawa.	42942	366.6	1.0	1.5012	1.4703	.8691	149-156	156-156	156-158	158-159	1.4697
	42943	366.0	2.5	1.4695	1.4660	.8668	150-156	156-158	158-160	160-175	1.4633
	42944	276.0	2.5	1.4688	1.4661	.8615	152-156	156-159	159-165	165-175	1.4634
	42945	376.8	1.1	1.5001	1.4716	.8681	155-157	157-159	159-160	160-161	1.4702
	42946	295.7	2.8	1.4696	1.4657	.8595	152-157	157-158	160-164	164-174	1.4628
Kingston	44201	360.4	1.3	1.4894	1.4704	.8706	155-157	157-158	158-160	160-168	1.4682
	44202	337.3	1.0	1.4956	1.4714	.8754	152-157	157-158	158-159	160-168	1.4693
	44203	250.8	3.8	1.4653	1.4658	.8576	150-160	160-165	165-179	179-227	1.4612
	44205	373.2	.8	1.4984	1.4714	.8748	150-157	157-158	158-160	160-168	1.4686
	44256	369.5	1.0	1.5000	1.4710	.8666	155-157	158-158	158-159	159-161	1.4698
Toronto.	41399	382.2	1.0	1.4977	1.4701	.8699	153-156	156-156	156-157	157-162	1.4679
	41400	365.3	1.1	1.4914	1.4697	.8669	152-157	157-158	158-159	159-162	1.4664
	41497	351.6	.95	1.4977	1.4715	.8720	155-157	157-158	158-159	159-163	1.4702
	41498	237.3	3.8	1.4604	1.4643	.8582	145-159	159-166	166-176	176-220	1.4560
	41499	395.0	.95	1.5000	1.4703	.8688	153-155	155-155	155-158	.....	1.4687
London.....	44731	358.1	.95	1.5008	1.4714	.8705	151-156	156-158	158-159	159-163	1.4690
	*44733	358.0	.9	1.4987	1.4696	.8692	.....	.....	.....	.....	.....
	44736	363.9	.75	1.5014	1.4718	.8819	153-156	156-157	157-160	160-176	1.4686
	44745	375.1	.6	1.4952	1.4716	.8681	153-156	156-157	157-157	157-162	1.4678
	†44748	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Windsor ...	42501	360.1	.8	1.4923	1.4702	.8698	152-157	157-157	157-158	158-163	1.4686
	42502	393.7	.65	1.4994	1.4706	.8699	153-155	155-156	156-157	157-162	1.4686
	42503	392.6	.7	1.4997	1.4700	.8679	153-156	156-157	157-157	157-159	1.4687
	42504	380.5	.65	1.4993	1.4705	.8702	152-155	155-156	156-158	158-162	1.4687
	42505	375.6	.6	1.4974	1.4700	.8678	150-156	156-156	156-157	1.4688

* Small sample.

† Sample in dirty bottle and therefore not worked.

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211—TURPENTINE.

ANALYSIS.

Fraction 2nd 25 cc.	Fraction 3rd 25 cc.	Fraction 4th 15 cc.	Residue of 10 cc.	Residue of 25 cc.	DISTILLATION TEMPERATURE OF 90 CC. FROM 100.											Flash Point.	Number of Sample.	Remarks and Opinion of the Chief Analyst.		
					Under 150°	150°-154°.	155°-159°.	160°-164°.	165°-169°.	170°-174°.	175°-179°.	180°-184°.	185°-189°.	190°-194°.	195°-199°.	200°				
1 4651	1 4671	1 4680	1 4775	...	...	3	18	29	17	8	4	5	3	2	1	...	34 0	41941	Contains petroleum.
1 4659	1 4670	1 4686	1 4818	...	...	1	21	34	14	8	4	3	2	1	1	1	36 5	41942	" "
1 4704	1 4717	1 4738	1 4838	...	...	...	5	48	31	6	...	...	...	...	...	...	38 5	41943	Wood turpentine.
1 4696	1 4703	...	...	1 4808	...	...	...	...	...	...	...	...	...	...	...	...	33 5	41944	Genuine.
1 4644	1 4663	1 4672	1 4793	...	...	1	15	27	18	11	7	2	1	1	1	6	36 5	41945	Contains petroleum.
1 4690	1 4693	1 4707	1 4889	...	0	5	78	7	...	...	...	...	...	...	...	...	32 5	38626	Genuine.
1 4627	1 4653	1 4683	1 4926	...	3	7	23	14	18	6	5	1	4	1	...	9	33	38627	Contains petroleum.	
1 4691	1 4692	1 4703	1 4750	...	...	2	80	8	...	...	...	...	...	...	...	...	34 5	38628	Doubtful.
1 4694	1 4700	1 4704	1 4820	...	...	3	83	4	...	...	...	...	...	...	...	...	33	38629	Genuine.
1 4698	1 4702	1 4719	1 5006	...	...	3	67	16	3	1	...	...	...	...	...	...	34 5	38630	"
1 4676	1 4693	1 4713	1 4900	...	2	17	68	3	...	...	...	...	...	...	...	...	29	39640	Doubtful.
1 4697	1 4702	1 4714	1 4894	...	...	1	78	11	...	...	...	...	...	...	...	...	33 5	39641	Genuine.
1 4677	1 4694	1 4713	1 4887	...	3	17	61	9	...	...	...	...	...	...	...	...	27	39642	Doubtful.
1 4676	1 4696	...	...	1 4790	...	...	...	...	...	...	...	...	...	...	...	...	28	39643	"
1 4654	1 4666	1 4673	1 4788	...	...	5	20	28	13	7	5	3	2	2	4	1	35	39644	Contains petroleum.
1 4695	1 4702	1 4715	1 4976	...	...	5	70	12	3	...	...	...	...	...	...	...	32 5	36523	Doubtful.
1 4550	1 4636	1 4677	1 4800	...	32	23	32	3	...	...	...	...	...	...	...	...	12	36524	Contains petroleum.
1 4650	1 4666	1 4673	1 4747	...	...	3	36	30	15	5	1	...	...	...	...	...	33	36525	" "
1 4698	1 4702	1 4720	1 4832	...	...	2	88	...	...	...	...	...	...	...	...	...	32 5	36526	Genuine.
1 4516	1 4620	1 4676	1 4813	...	41	21	25	3	...	...	...	...	...	...	...	...	9	36527	Contains petroleum.
1 4603	1 4611	1 4608	1 5074	...	...	2	23	34	11	9	5	1	2	3	...	...	37	1256	" "
1 4700	1 4704	1 4718	1 4937	...	...	2	69	18	1	...	...	...	...	...	...	...	34	1257	Genuine.
1 4707	1 4689	1 4774	1 5166	...	...	7	50	18	5	4	2	1	1	1	...	2	33 5	1258	Doubtful.
1 4644	1 4659	1 4679	1 4800	...	...	3	12	26	18	12	3	4	3	1	0	...	37	1259	Contains petroleum.
1 4640	1 4664	1 4682	1 4839	...	...	4	17	17	16	13	10	5	1	1	1	15	36	1260	" "
1 4694	1 4707	1 4767	1 5196	...	...	10	38	27	6	5	1	1	1	...	1	...	35	40442	Doubtful.
1 4688	1 4702	1 4719	1 4974	...	...	5	68	14	3	...	...	...	...	...	...	...	33 5	40443	Genuine.
1 4690	1 4700	1 4710	1 4846	...	...	10	73	7	...	...	...	...	...	...	...	...	31 5	40444	Doubtful.
1 4687	1 4696	...	...	1 4792	...	...	...	...	...	...	...	...	...	...	...	...	31 5	40445	Genuine.
1 4684	1 4686	1 4708	1 4779	...	...	5	75	10	...	...	...	...	...	...	...	...	32	40446	"
1 4702	1 4704	1 4717	1 4813	...	1	8	81	...	...	...	...	...	...	...	...	...	35 5	42942	Doubtful.
1 4655	1 4664	1 4674	1 4800	...	...	13	54	18	4	1	...	...	...	...	...	...	33	42943	Contains petroleum.
1 4656	1 4674	1 4677	1 4790	...	...	10	47	18	11	4	...	...	...	...	...	...	34	42944	" "
1 4704	1 4710	1 4724	1 4789	...	...	0	73	17	...	...	...	...	...	...	...	...	34 5	42945	Genuine.
1 4658	1 4662	1 4670	1 4760	...	...	7	44	28	8	3	...	...	...	...	...	...	33 5	42946	Contains petroleum.
1 4692	1 4701	1 4712	1 4868	...	...	...	69	17	4	...	...	...	...	...	...	...	33 5	44201	Doubtful.
1 4696	1 4702	1 4721	1 4947	...	...	4	71	13	2	...	...	...	...	...	...	...	34 5	44202	"
1 4642	1 4663	1 4676	1 4805	...	...	4	18	28	11	10	9	3	2	...	...	...	35	44203	Contains petroleum.
1 4694	1 4700	1 4716	1 4963	...	...	4	66	18	2	...	...	...	...	...	...	...	33 5	44205	Genuine.
1 4701	1 4708	1 4718	1 4808	...	...	...	83	7	...	...	...	...	...	...	...	...	34	44256	"
1 4690	1 4696	1 4708	1 4873	...	...	...	4	83	3	...	...	...	...	...	...	...	32 5	41399	"
1 4694	1 4706	1 4718	1 4812	...	...	...	5	71	14	...	...	...	...	...	...	...	31	41400	"
1 4703	1 4713	1 4726	1 4883	...	...	...	...	77	13	...	...	...	...	...	...	...	34 5	41497	Doubtful.
1 4616	1 4646	1 4674	1 4894	3	14	17	14	15	9	6	2	2	1	2	5	34 5	41498	Contains petroleum.
1 4690	1 4696	...	...	1 4750	...	...	...	...	...	...	...	...	...	...	...	...	33 5	41499	Genuine.
1 4702	1 4710	1 4723	1 4897	...	...	5	76	9	...	...	...	...	...	...	...	...	34 5	44731	Doubtful.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	28 0	44733	"
1 4697	1 4702	1 4727	1 5053	...	...	5	69	5	8	2	1	...	...	...	...	...	34 5	44736	Genuine.
1 4689	1 4693	1 4708	1 4836	...	...	5	80	5	...	...	...	...	...	...	...	...	34 0	44745	"
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	44748	Not worked.
1 4690	1 4702	1 4707	1 4813	...	...	11	70	9	...	...	...	...	...	...	...	...	34 5	42501	Doubtful.
1 5688	1 4700	1 4713	1 4886	...	...	6	80	4	...	...	...	...	...	...	...	...	32 5	42502	Genuine.
1 4690	1 4698	1 4710	1 4796	...	...	5	85	...	...	...	...	...	...	...	...	...	33 0	42503	"
1 4691	1 4698	1 4713	1 4878	...	...	5	78	7	...	...	...	...	...	...	...	...	33 5	42504	"
1 4691	1 4700	...	...	1 4740	...	...	...	...	...	...	...	...	...	...	...	...	33 5	42505	"

TABLE I, (PART II) BULL.

RESULTS OF

Name of Inspectoral District.	Number of Sample.	Habl Iodine Number.	Insol. Residue from 10 cc. with 40 cc. H ₂ SO ₄ 4 Conc. 1 fun.	Ref. Index 20° of Insoluble Residue.	Ref. Index 20° of Turpentine.	Sp. gr. 15° 5 of Tur- pentine.	Distillation Temp. 1st 25 cc. from 100 cc.	2nd 25 cc.	3rd 25 cc.	Next 15 cc.	Ref. Index 1st 25 cc. Distillate.
Manitoba.....	39871	380·8	1·15	1·4950	1·1696	·8681	152 - 157	157 - 157	157 - 158	158 - 163	1·4679
	39872	373·2	·95	1·4922	1·4699	·8697	152 - 155	155 - 156	156 - 157	157 - 162	1·4673
	39873	341·1	1·15	1·4900	1·4702	·8698	152 - 155	155 - 156	156 - 158	158 - 169	1·4676
	39874	359·6	·95	1·4959	1·5705	·8726	150 - 155	155 - 156	156 - 158	158 - 164	1·4667
	39875	361·7	·9	1·4·27	1·4704	·8732	152 - 156	156 - 157	157 - 159	159 - 157	1·4676
Calgary	35637	380·9	·75	1·4954	1·4707	·8722	149 - 156	156 - 156	156 - 159	.....	1·4668
	35638	358·3	·95	1·4936	1·4702	·8662	148 - 155	155 - 157	157 - 158	158 - 168	1·4658
	35639	354·6	·85	1·4934	1·4703	·8720	152 - 157	157 - 158	158 - 160	160 - 167	1·4672
	35640	369·8	1·0	1·4918	1·4694	·8685	146 - 156	156 - 157	157 - 159	159 - 167	1·4676
	35641	367·4	·95	1·4945	1·4701	·8719	152 - 156	156 - 157	157 - 157	157 - 167	1·4667
Vancouver.....	37853	298·6	2·6	1·4650	1·4650	·8586	145 - 157	157 - 161	161 - 169	170 - 225	1·4584
	37854	368·1	·65	1·4990	1·4703	·8684	155 - 157	157 - 157	157 - 158	.....	1·4687
	37855	272·5	3·3	1·4596	1·4631	·8534	140 - 158	158 - 162	162 - 175	175 - 210	1·4570
	37856	345·1	·7	1·4984	1·4703	·8694	152 - 156	156 - 156	156 - 158	.....	1·4690
	37857	368·8	·75	1·4976	1·4702	·8679	152 - 155	155 - 156	156 - 157	.....	1·4674
Victoria.....	41674	367·1	·7	1·4804	1·4686	·8661	140 - 152	152 - 154	154 - 156	.....	1·4606
	41675	352·0	·95	1·4779	1·4682	·8653	140 - 155	155 - 158	158 - 159	.....	1·4610
	41676	299·0	2·85	1·4615	1·4645	·8548	140 - 157	157 - 161	161 - 172	172 - 215	1·4570
	41677	284·0	3·2	1·4620	1·4637	·8538	145 - 158	158 - 162	162 - 174	174 - 220	1·4572
	41678	369·6	·85	1·4944	1·4680	·8653	140 - 155	155 - 157	157 - 159	159 - 165	1·4602
	A	295·8	1·3	1·4943	1·4704	·8705	155 - 160	160 - 162	162 - 167	167 - 176	1·4677
	B	344·4	·7	1·4986	1·4678	·8681	.....	.....	.....	.....	.....
	C	317·1	·9	1·4948	1·4696	·8664	.....	.....	.....	.....	.....
	D	331·5	·9	1·4884	1·4678	·8670	.....	.....	.....	.....	.....
	E	349·1	·55	1·4971	1·4688	·8700	.....	.....	.....	.....	.....
	F	290·3	·6	1·4947	1·4750	·9065	.....	.....	.....	.....	.....
	G	247·8	·35	1·5013	1·4800	·9288	.....	.....	.....	.....	.....
	H	372·5	1·0	1·5003	1·4702	.....	155 - 157	157 - 157	157 - 158	158 - 158	1·4688
	I	238·0	4·15	1·4600	1·4631	.....	148 - 159	159 - 165	165 - 180	180 - 215	1·4764
	K	211·4	4·0	1·4634	1·4651	·8562	151 - 161	161 - 164	165 - 177	177 - 206	1·4603

SESSIONAL PAPER No. 14

211—TURPENTINE.

ANALYSIS.

2nd 25 cc.	3rd 25 cc.	Next 15 cc.	Residue 10 cc.	Residue 25 cc.	DISTILLATION TEMPERATURE OF 90 CC. FROM 100.											Flash Point.	Number of Sample.	Remarks, and opinion of the Chief Analyst.	
					Under 150°.	150-154°.	155°-159°.	160°-164°.	165°-169°.	170°-174°.	175°-179°.	180°-184°.	185°-189°.	190°-194°.	195°-199°.				200°.
1·4689	1·4694	1·4709	1·4816	.....	..	3	79	8	..	..	..	..	..	..	..	..	32·0	39871	Genuine.
1·4689	1·4699	1·4718	1·4830	.....	..	15	70	5	..	..	..	..	..	..	..	..	32·0	39872	"
1·4683	1·4692	1·4703	1·4870	.....	..	5	72	10	3	..	..	..	..	..	..	..	33·0	39873	Doubtful.
1·4686	1·4698	1·4713	1·4913	.....	..	18	64	8	..	..	..	..	..	..	..	..	31·5	39874	"
1·4697	1·4703	1·4716	1·4933	.....	..	7	74	7	1	..	..	..	..	..	..	..	31·0	39875	"
1·4690	1·4700	.....	.....	1·4807	.....	..	..	..	..	..	..	..	..	..	..	..	32·0	35637	Genuine.
1·4688	1·4700	1·4718	1·4970	.....	2	12	65	8	3	..	..	..	..	..	..	..	31·5	35638	Doubtful.
1·4698	1·4704	1·4713	1·4937	.....	..	7	59	23	2	..	..	..	..	..	..	..	32·0	35639	"
1·4687	1·4694	1·4705	1·4884	.....	3	4	71	10	2	..	..	..	..	..	..	..	34·0	35640	"
1·4692	1·4700	1·4718	1·4951	.....	..	7	75	7	2	..	..	..	..	..	..	..	32·5	35641	Genuine.
1·4654	1·4668	1·4666	1·4800	.....	4	11	28	24	8	4	3	2	2	1	1	2	27·5	37853	Contains petroleum.
1·4696	1·4700	.....	.....	1·4750	.....	..	..	..	..	..	..	..	..	..	..	..	34·0	37854	Genuine.
1·4643	1·4660	1·4675	1·4840	.....	6	6	22	22	13	5	4	3	2	..	1	6	21·5	37855	Contains petroleum.
1·4693	1·4710	.....	.....	1·4753	.....	..	..	..	..	..	..	..	..	..	..	..	34·0	37856	Doubtful.
1·4686	1·4699	.....	.....	1·4746	.....	..	..	..	..	..	..	..	..	..	..	..	32·0	37857	Genuine.
1·4683	1·4698	.....	.....	1·4780	.....	..	..	..	..	..	..	..	..	..	..	..	23·0	41674	Doubtful.
1·4677	1·4694	.....	.....	1·4769	.....	..	..	..	..	..	..	..	..	..	..	..	24·0	41675	"
1·4648	1·4663	1·4662	1·4790	.....	5	10	25	24	8	7	2	2	2	1	1	3	25·0	41676	Contains petroleum.
1·4636	1·4663	1·4650	1·4740	.....	4	9	21	23	12	9	3	2	2	2	1	2	26·0	41677	"
1·4677	1·4696	1·4714	1·4930	.....	6	16	53	15	..	..	..	..	..	..	..	..	23·5	41678	Doubtful.
1·4687	1·4706	1·4726	1·4873	.....	..	..	20	46	16	7	1	..	..	..	..	..	35·5	A	Wood turpentine.
.....	.....	.....	.....	.....	..	..	..	..	..	..	..	..	..	..	..	..	..	B	"
.....	.....	.....	.....	.....	..	..	..	..	..	..	..	..	..	..	..	..	..	C	"
.....	.....	.....	.....	.....	..	..	..	..	..	..	..	..	..	..	..	..	..	D	"
.....	.....	.....	.....	.....	..	..	..	..	..	..	..	..	..	..	..	..	..	E	"
.....	.....	.....	.....	.....	..	..	..	..	..	..	..	..	..	..	..	..	..	F	"
.....	.....	.....	.....	.....	..	..	..	..	..	..	..	..	..	..	..	..	..	G	"
1·4697	1·4704	1·4713	1·4786	.....	..	..	90	..	..	..	..	..	..	..	..	..	..	H	Genuine.
1·4624	1·4646	1·4663	1·4776	.....	2	9	17	22	16	6	3	5	3	1	1	5	30·5	I	Contains petroleum.
1·4640	1·4655	1·4668	1·4830	.....	..	4	19	21	16	10	10	4	2	1	1	2	35·0	K	"

TABLE II.—TURPENTINE.

No. of Sample.	Iodine Number.	Residue from 10 cc. insoluble in H ₂ SO ₄ .	Refractive index of insoluble residue.	Refractive index of the Sample.	Specific gravity of the Sample.	FRACTIONATION OF 100 CC.				REFRACTIVE INDICES OF FRACTIONS AND RESIDUES.					VOLUMES OBTAINED FROM 100 CC.												Flash Point.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
						1st 25 cc.	2nd 25 cc.	3rd 25 cc.	Next 15 cc.	1st 25 cc.	2nd 25 cc.	3rd 25 cc.	Next 15 cc.	Residue.	Res. 25 cc.	Below 150																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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35397	380.6	0.75	1.4954	1.4707	0.8722	149-156	156-156	156-156	159	1.4668	1.4690	1.4700	1.4707	1.4889	1.4807</

Somewhat irregular.

TABLE III.

Designation of Sample.	Hubl Loline Number.	Residue from 10 cc. insoluble in H ₂ SO ₄ .	Refractive index of insoluble residue.	Refraction index of the Sample.	Specific gravity of the Sample.	FRACTIONATION OF 100 CC.				REFRACTIVE INDICES OF FRACTIONS AND RESIDUES.							VOLUMES OBTAINED FROM 100 CC.											Flash Point.		
						1st 25 cc.	2nd 25 cc.	3rd 25 cc.	Next 15 cc.	1st 25 cc.	2nd 25 cc.	3rd 25 cc.	Next 15 cc.	Residue.	Res. 25 cc.	Under 150	150-154	155-159	160-164	165-169	170-174	175-179	180-184	185-189	190-194	195-199	200-			
A	295.5	1.3	1.4943	1.4704	0.8705	155-160	160-160	162-162	167-167	176-176	1.4677	1.4687	1.4706	1.4726	1.4873			20	46	16	7	1								35.5
B	344.4	.7	1.4986	1.4678	0.8681																									
C	317.1	.9	1.4948	1.4696	0.8664																									
D	331.5	.9	1.4884	1.4678	0.8670																									
E	349.1	.55	1.4971	1.4688	0.8700																									
F	290.3	.6	1.4917	1.4750	0.9065																									
G	247.8	.35	1.5013	1.4800	0.9288																									
I	238.0	4.15	1.4600	1.4631	.....	148-159	159-165	165-165	180-180	215-215	1.4564	1.4624	1.4646	1.4663	1.4776	2	9	17	22	16	6	3	5	3	1	1	5	30.5		
K	211.4	4.0	1.4634	1.4651	0.8562	151-161	161-164	165-165	177-177	206-206	1.4603	1.4640	1.4655	1.4668	1.4830		4	19	21	16	10	10	4	2	1	1	2	35		

APPENDIX G.

BULLETIN No. 202—PACKAGED FRUIT.

OTTAWA, August 5, 1910.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR,—I have the honour to submit, herewith, a report upon the examination of four hundred and thirty-eight (438) samples of packaged fruit, purchased by our inspectors, throughout the Dominion, in April and May of this year.

The collection is made up as follows :—

	Samples.
Apples (evaporated).....	2
Currants	121
Dates	54
Figs.....	16
Prunes	2
Raisins	243
Total.....	438

In as much as the two packages required (by section 15 subsection 3 of the Act) to be sent to this laboratory, were, in most instances, separate packages, as offered for sale, they have been separately reported upon, and each collector's number represents two samples, which are distinguished as (a) and (b).

The examination includes :—

1. Identification of the contents of the package.
2. Net weight of contents of the package.
3. Report as to quality of the fruit.
4. Examination of the soundness; *i.e.*, freedom from mould or fungus; decay; worminess.
5. Examination of the cleanliness.

In all cases the fruit has been found true to name. An inspector's blunder makes No. 42309 (a) raisins, while 42309 (b) is currants.

It will be noted that, with very few exceptions, the cartons or packages, approximate to one pound (16 oz) in weight. Four packages are evidently meant to contain two pounds each; and in a few fancy packages, particularly in the case of figs, the weight is about half a pound. Many of the samples are declared on the package to be of one pound weight, but a large number make no statement of weight. Our Adulteration Act, takes no account of the matter of guaranteed weight, an omission that should be rectified at next revision. While it may not be desirable to require a statement of net weight, in all cases, it is reasonable to exact that, when such a statement is made, it shall be lived up to.

The following synopsis gives details of the weights of packaged fruits examined.

<i>Raisins.</i>	Samples.
16 ounces, or over	84
15 to 16 ounces	103
14 to 15 "	30
13 to 14 "	5
12 to 13 "	7
Below 12 "	13
Sample omitted	1
Total.....	243

SESSIONAL PAPER No. 14

Currants.

	Samples.
16 ounces or over.....	13
15 to 16 ounces.....	45
14 to 15 ".....	53
13 to 14 ".....	9
12 to 13 ".....	1
Total.....	121

Dates.

	Samples.
16 ounces or over.....	5
15 to 16 ounces.....	7
14 to 15 ".....	14
13 to 14 ".....	18
12 to 13 ".....	6
Below 12 ".....	3
Sample accidentally lost.....	1
Total.....	54

The quality of the fruit as regards size and general excellence, is stated with as much accuracy as possible; but no claim is made for technical exactness on this point.

Section 3 (a) of the Adulteration Act, states that 'Food shall be deemed to be adulterated within the meaning of this Act, if it consists wholly or in part of a diseased or decomposed or putrid or rotten animal or vegetable substance, whether manufactured or not.' Under this section I have condemned twelve samples as adulterated, on account of decay, mouldiness or worminess.

It is not necessarily the fault of the packer when such a state of things exists in case of a perishable article, like fruit. The fly-specked condition of some of these packages is sufficient to prove that they have been exposed to flies, and, it may be for a considerable length of time. It seems not unreasonable to hold the retail vendor responsible for the soundness of such perishable goods, unless he can prove that he received them, in this condition, from the wholesale dealer or packer. Seventeen samples are adjudged as 'doubtful.'

The inspection was undertaken because of several complaints received from purchasers of packaged fruit, who found the articles supplied to them to be unfit for food. The results show that most of the packaged fruit offered in Canada is of excellent quality; but cases occur where, through carelessness, or other cause, complaints on the part of consumers are well founded.

I beg to recommend the publication of this report as Bulletin No. 212.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,
Chief Analyst.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.		
DISTRICT OF NOVA SCOTIA—							
1910.							
April 20	Raisins. . .	41966a	Share & Campbell, Halifax, N.S.	3 pkgs	30	Phoenix Packing Co., Fresno, Cal.	'Pilgrim' brand.
" 20	" . . .	41966b	.....	.....	.....	.....	" ..
" 20	Currants..	41967a	G. A. Cook & Co., Halifax, N.S.	3 "	30	A. F. Zine, Patras, Greece	'Fairy Cake' brand.
" 20	" . . .	41967b	.....	.....	.....	.....	" ..
" 20	Raisins. . .	41968a	" . . .	3 "	30	Guggenhime & Co., California.	'Daphne' brand
" 20	" . . .	41968b	.....	.....	.....	.....	" ..
" 20	" . . .	41969a	Wentzelis, Ltd., Halifax.	3 "	30	J. K. Armsby, Fresno, Cal.	'Pontiac' brand
" 20	" . . .	41969b	.....	.....	.....	.....	" ..
" 20	Currants..	41970a	T. F. Courtney & Co., Halifax.	3 "	30	Bauld Bros., Halifax, N.S.	'Thistle' brand.
" 20	" . . .	41970b	.....	.....	.....	.....	" ..
May 3	Raisins. . .	41971a	R. B. Adams & Co., Halifax.	3 "	30	" . . .	'Swan' brand..
" 3	" . . .	41971b	.....	.....	.....	.....	" ..
" 3	" . . .	41972a	J. D. Stewart, Halifax	3 "	36	Griffen & Skelley, Fresno, Cal.	'Easter' brand..
" 3	" . . .	41972b	.....	.....	.....	.....	" ..
" 3	" . . .	41973a	E. Donahoe & Son, Halifax.	3 "	30	" . . .	Seedless raisins..
" 3	" . . .	41973b	.....	.....	.....	.....	" ..
" 4	Currants..	41974a	J. A. Leamean & Co., Branch 4, Halifax.	3 "	24	Unknown.....	'New Years' Cake' brand.
" 4	" . . .	41974b	.....	.....	.....	.....	" ..
" 4	Raisins. . .	41975a	J. F. Delaney, Halifax	3 "	35	Gugginhime & Co., California.	'Rosedale' brand
" 4	" . . .	41975b	.....	.....	.....	.....	" ..
" 4	" . . .	41976a	G. Wakefield, Halifax.	3 "	30	Hills Bros. Co., New York.	'Eagle' brand..
" 4	" . . .	41976b	.....	.....	.....	.....	" ..
" 5	" . . .	41977a	J. F. Crowe & Co., Halifax.	3 "	25	Guggenhime & Co., California.	'Gazelle' brand.
" 5	" . . .	41977b	.....	.....	.....	.....	" ..
" 5	Currants..	41978a	" . . .	3 "	25	Hills Bros. Co., New York.	'Purity' brand..
" 5	" . . .	41978b	.....	.....	.....	.....	" ..
" 10	" . . .	41979a	B. H. Dodge, Kentville, N.S	3 "	25	Hills Bros. Co., New York.	'Excelsior' brand

SESSIONAL PAPER No. 14

PACKAGED FRUIT.

Kind of Fruit and Nature of Package.	RESULTS OF ANALYSIS.						Remarks and opinion of the Chief Analyst.
	Net weight of contents in ounces.	Specific identity.	Quality and size of fruit.	Soundness or decay.	Cleanliness.	Nature of foreign mat- ter if any.	
R. J. WAUGH, INSPECTOR.							
Raisins in parchment paper in a cardboard carton.	16.0	Genuine	Good, good size and soft.	Sound..	Clean..		41966a
" " "	16.0	"	Fair, rather small; fairly soft.	"	"		41966b
Currants in parchment paper in a cardboard carton.	15.5	"	Fair, small and dry	"	Fairly clean.		41967a
" " "	15.5	"	Fair, good size; fairly soft.	"	"	Gritty matter.	41967b
Raisins in parchment paper in a cardboard carton.	16.0	"	Good, fair size and soft.	"	Clean.		41968a
" " "	15.5	"	Good, good size and soft.	"	"		41968b
" " "	14.5	"	Good, large and soft.	"	"		41969a
" " "	15.0	"	Good, large; rather dry candied.	"	"		41969b
Currants in a cardboard carton.	14.5	"	Good, good size and soft.	"	"		41970a
" " "	14.5	"	" " "	Mostly sound.	"		41970b
Raisins in cardboard carton.	16.0	"	Fair, small size ...	Sound..	Dirty...		41971a
" " "	16.0	"	Fair, small and rather dry.	Somewi- thered.	Fairly clean.		41971b
Raisins in parchment paper in a cardboard carton.	15.5	"	Good, rather small, soft.	Sound	Clean...		41972a
" " "	15.0	"	" " "	"	Fairly clean.		41972b
Raisins in a cardboard carton.	16.0	"	Good, small and soft.	"	Clean...		41973a
" " "	16.5	"	" " "	"	"		41973b
Currants in parchment paper in a cardboard carton.	15.5	"	Good, large and soft.	"	Fairly clean.		41974a
" " "	15.0	"	" " "	"	Clean..		41974b
Raisins in parchment paper in a cardboard carton.	16.0	"	" " "	"	"		41975a
" " "	16.0	"	" " "	"	"		41975b
" " "	15.5	"	Good, large, can- died.	"	"		41976a
" " "	15.5	"	Good, large, can- died, rather dry.	"	"		41976b
" " "	16.0	"	Good, large and soft.	"	"		41977a
" " "	15.0	"	Fair, rather small.	"	Fairly clean.		41977b
Currants in parchment paper in a cardboard carton.	15.5	"	Fair, good size and soft.	"	Not very clean.		41978a
" " "	14.5	"	" " "	"	Clean...		41978b
Currants in cardboard carton.	14.5	"	Fair, fair size and soft.	"	"		41979a

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.		

DISTRICT OF NOVA SCOTIA—

1910.							
May 10	Currants.	41979b	.....	.....	.....	.....	Excelsior' brand
" 10	Raisins...	41980a	O. Lyons, Kentville, N.S.	3 pkgs	35	Guggenhime & Co., California.	'Rosedale' brand
" 10	"	41980b	.....	.....	.....	.....	"

DISTRICT OF PRINCE EDWARD ISLAND—

April 20	Currants.	38671a	John McKenna, Charlottetown.	3 pkgs	30	N. Rattenbury, Charlottetown.	'Purity' brand..
" 20	"	38671b	.....	.....	.....	.....	"
" 20	"	38672a	H. A. Dunbar, Charlottetown.	3 "	30	N. Rattenbury, Charlottetown.	'Royal Excelsior' brand.
" 20	"	38672b	.....	.....	.....	.....	"
" 20	"	38673a	Sanderson & Co., Charlottetown.	3 "	30	Hills Bros. & Co., New York.	"
" 20	"	38673b	.....	.....	.....	.....	"
" 21	"	38674a	James Kennedy, Kensington.	3 "	27	Dearborn & Co., St. John	'Special' brand.
" 21	"	38674b	.....	.....	.....	.....	"
" 21	"	38675a	J. A. Hynes, Kensington.	3 "	36	Maritime Spice & Coffee St. John.	'Acorn' brand..
" 21	"	38675b	.....	.....	.....	.....	"
" 21	"	38676a	Waugh & Steeves, Summerside.	3 "	30	Laporte, Martin & Cie, Montreal.	'Mistletoe' brand
" 21	"	38676b	.....	.....	.....	.....	"
" 21	"	38677a	Sinclair & Stewart, Summerside.	3 "	24	Chaput fils & Cie, Montreal.	'Chariot' brand
" 21	"	38677b	.....	.....	.....	.....	"
" 21	Raisins.	38678a	D. McKenzie, Kensington.	3 "	33	Guggenhime & Co., California.	'Daphne' brand
" 21	"	38678b	.....	.....	.....	.....	"
" 21	"	38679a	J. A. Hynes, Kensington.	3 "	36	Phoenix Package Co., Fresno, Cal.	'Santa Claus' brand.
" 21	"	38679b	.....	.....	.....	.....	"
" 22	"	38680a	R. T. Holman, Ltd., Summerside.	3 "	30	A. J. Tippell Co., Montreal.	Griffins Seedless Raisins.
" 22	"	38680b	.....	.....	.....	.....	"
" 26	"	38681a	P. W. McLeod, Mount Stewart.	3 "	36	Carvell Bros., Charlottetown.	'Easter' brand..
"	"	38681b	.....	.....	.....	.....	"

SESSIONAL PAPER No. 14

PACKAGED FRUIT.

Kind of Fruit and Nature of Package.	RESULTS OF ANALYSIS.						Remarks and opinion of the Chief Analyst.
	Net weight of contents in ounces.	Specific identity.	Quality and size of fruit.	Soundness or decay.	Cleanliness.	Nature of foreign mat- ter if any.	

R. G. WAUGH, INSPECTOR—*Concluded.*

Currants in parchment paper in a cardboard carton.	14.5	Genuine	Fair, fair size and soft.	Sound..	Fairly		41979b
Raisins in parchment paper in a cardboard carton.	16.0	"	Fair, large and soft	"	Clean...		41980a
"	16.0	"	Good, large, rather dry.	"	"		41980b

THEO. MOORE, INSPECTOR.

Currants in parchment paper in a cardboard carton.	14.0	Genuine	Good, large and soft	Sound..	Fairly		38671a	A dulterated under sec. 3 (e).
"	14.0	"	"	"	Clean...		38671b	
"	13.5	"	Mouldy, fair size..	Decayed	Dirty..	Mould..	38672a	
"	14.0	"	Fair, large but dry.	Mostly sound.	Fairly clean.	Some gritty matter.	38672b	
"	14.0	"	Good, good size and soft.	Sound..	Clean...		38673a	
"	14.0	"	Good, large and soft	"	"		38673b	
"	14.5	"	Good, good size and soft.	"	"		38674a	
"	15.0	"	Good, large and soft	"	"		38674b	
"	14.5	"	"	"	"		38675a	
"	15.0	"	Good, large and rather dry.	"	Fairly clean.		38675b	
Currants in a cardboard carton.	15.0	"	Fair, large and soft	Mostly sound.	"		38676a	
"	14.5	"	"	Sound..	Clean...		38676b	
Currants in parchment paper in cardboard carton.	14.5	"	Good, good size and soft.	"	"		38677a	
"	14.5	"	Good, large and rather dry.	"	Fairly clean.		38677b	
Raisins in parchment paper in cardboard carton.	13.5	"	Fair size, but dry..	"	Clean...		38678a	
"	15.0	"	Good, but rather small and dry.	"	"		38678b	
Raisins in parchment paper in cardboard carton.	15.5	"	Good, large and soft.	"	"		38679a	
"	15.0	"	"	"	Fairly clean.		38679b	
Raisins in a cardboard carton.	16.5	"	Good, small and soft.	"	Clean..		38680a	
"	16.0	"	"	"	"		38680b	
"	14.0	"	Fair, fair size and soft.	"	"		38681a	
"	15.0	"	Good, fair size and soft.	"	"		38681b	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not as expression of opinion).
				Quantity.	Cents.		

DISTRICT OF PRINCE EDWARD ISLAND—

1910.							
April 27	Raisins...	38682a	A. McLean & Co., Georgetown.	3 pkgs	30	Griffin & Skelley, California.	'Griffin' brand..
" 27	"	38682b					"
" 20	Dates.....	38683a	H. A. Dunbar, Charlottetown.	3 "	30	N. Rattenbury, Charlottetown.	'Royal Excelsior' brand.
" 20	"	38683b					"
" 22	"	38684a	R. T. Holman, Summerside.	3 "	21	Hills Bros., New York..	'Anchor' brand.
" 22	"	38684b					"
" 26	"	38685a	A. E. McKinnon, Mount Stewart.	3 "	30	Carvell Bros., Charlottetown.	.....
" 26	"	38685b					.....

DISTRICT OF NEW BRUNSWICK—

April 18	Currants..	39686a	Dearborn & Co., St. John, N.B.	3 pkgs	24	Vendors.....	'Dearborn' brand
" 18	"	39686b					"
" 18	Raisins...	39687a	Baird & Peters, St. John, N.B.	3 "	25	Rosenbery Bros. & Co., San Francisco, Cal.	'Ensign' brand.
" 18	"	39687b					"
" 19	Currants..	39688a	G. E. Barbour Co., Ltd., St. John, N.B.	3 "	24	Vendors	'Acorn' brand..
" 19	"	39688b					"
" 28	Raisins...	45215a	H. W. Cole, Ltd., St. John, N.B.	3 "	25	Fresno Home Packing Co., Fresno, Cal.	'Blue Ribbon' brand.
" 28	"	45215b					"
" 30	Currants..	45216a	2 Barkers, Ltd., St. John, N.B.	3 "	21	Hills Bros., New York..	'Three C.' brand
" 30	"	45216b					"
May 5	Dates.....	45217a	Hatt, Morrison & Co., Fredericton, N. B.	3 "	30	"	'Anchor' brand.
" 5	"	45217b					"
" 6	Raisins...	45218a	G. T. Whelpley Estate, Fredericton, N.B.	3 "	36	Griffin & Skelley Co., Fresno, Cal.	'Griffin' brand..
" 6	"	45218b					"
" 7	Dates	45219a	Burden & King, Woodstock, N.B.	3 "	30	A. L. Goodwin & Co., St. John, N.B.	'Eagle' brand..

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PACKAGED FRUIT.

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THEO. MOORE, INSPECTOR--*Concluded.*

Raisins in a cardboard carton.	16.0	Genuine	Good, large and soft	Sound..	Clean...		38682a	
" " "	16.0	"	" " "	" "	" "		38682b	
Dates in a cardboard carton.	13.5	"	Good, good size and soft.	" "	" "		38683a	
" " "	12.5	"	Good, large and a little dry.	" "	" "		38683b	
" " "	14.5	"	Good, large and soft.	" "	" "		38684a	
" " "	13.5	"	Good, good size and dry.	" "	Fairly clean.		38684b	
" " "	13.5	"	Poor, fair size and very dry.	Rather mouldy	" "	Mould..	38685a	Doubtful.
" " "	13.0	"	Poor, fair size and dry.	Mouldy.	Not clean.	" "	38685b	

J. C. FERGUSON, INSPECTOR.

Currants in a cardboard carton.	16.0	Genuine	Poor, good size and dry.	Some decayed	Found worms.	Worms.	39686a	Adulterated under sec. 3 (c).
" " "	15.5	"	Good, large and soft.	Sound..	Fairly clean.	Gritty matter.	39686b	
Raisins in parchment paper in a cardboard carton.	15.5	"	Good, fair size and soft.	" "	Clean...		39687a	
" " "	16.0	"	Good, large and rather dry.	" "	" "		39687b	
Currants in parchment paper in a cardboard carton.	15.0	"	Good, large and soft.	" "	" "		39688a	
" " "	15.0	"	Good, good size and fairly soft.	" "	Fairly clean.	A little gritty matter.	39688b	
Raisins in parchment paper in a cardboard carton.	15.5	"	Good, fair size and soft.	" "	Clean ..		45215a	
" " "	15.5	"	Good, large and soft.	" "	" "		45215b	
Currants in parchment paper in a cardboard carton.	15.0	"	Good, good size and soft.	" "	" "		45216a	
" " "	14.5	"	" " "	" "	" "		45216b	
Dates in parchment paper in a cardboard carton.	15.0	"	Good, large and soft.	" "	" "		45217a	
" " "	12.5	"	Fair, large and rather dry.	A few decayed	Fairly clean.	Dust ...	45217b	Doubtful.
Raisins in parchment paper in a cardboard carton.	16.0	"	" " "	Sound..	Clean ..		45218a	
" " "	16.0	"	Good, large and soft.	" "	" "		45218b	
Dates in parchment paper in a cardboard carton.	14.0	"	" " "	" "	" "		45219a	

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				Quantity.	Cents.		

DISTRICT OF NEW BRUNSWICK—

1910.							
April 7	Dates.....	45219b				Eagle' brand...
" 7	Currants..	45220a	B. H. Smith & Son, Woodstock, N.B.	3 pkgs	30	Hills Bros. Co., New York.	'Royal Excelsior brand.
" 7	"	45220b	.....				" ..
" 10	Raisins...	45221a	J. W. McPhail, Perth, N.B.	3 " 3	36	Rosenberg Bros. & Co., San Francisco, Cal.	'Monarch' brand
" 10	"	45221b	.....				" ..
" 10	Currants..	45222a	E.A.Sloat, Perth, N.B.	3 " .	30	Joses & Schofield, St. John, N.B.	'Parthenon' brand.
" 10	"	45222b	.....				" ..
" 11	"	45223a	Jas. F. McCluskey, Grand Falls, N.B.	3 " .	30	Baird & Peters, St. John, N.B.	'Reindeer' brand
" 11	"	45223b	.....				" ..
" 21	Raisins...	45224a	J. D. Paulin, New-castle, N.B.	3 " .	30	Madison & Bonner, Fresno, Cal.	'California Seal' brand.
" 21	"	45224b	.....				" ..
" 21	"	45225a	D. & J. Ritchie & Co., Newcastle, N.B.	3 " .	36	Fresno Home Packing Co., Fresno, Cal.	'Red Ribbon brand.
" 21	"	45225b	.....				" ..
" 21	Currants..	45226a	" " " "	3 " .	30	H. W. Cole, Ltd., St. John, N.B.	'Thistle' brand.
" 21	"	45226b	.....				" ..

DISTRICT OF QUEBEC—

April 20	Packaged Fruit.	36553a	G. Marquis, Batiscan, P.Q.	3 pkgs	30	L. Chaput fils & Co., Montreal.	.....
" 20	"	36553b	.....				.....
" 21	"	36554a	E. Deguise, St. Geneviève.	3 " .	30	" "	.....
" 21	"	36554b	.....				.....
" 21	"	36555a	" " " "	3 " .	30	" "	.....
" 21	"	36555b
" 21	"	36556a	A. A. St. Arneaud, St. Geneviève.	3 " .	24	Hudon & Aselin, Montreal.

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PACKAGED FRUIT.

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J. C. FERGUSON, INSPECTOR—*Concluded.*

Dates in parchment paper in a cardboard carton.	13·5	Genuine	Good, large, soft..	Sound..	Clean	45219b	
Currants in parchment paper in a cardboard carton.	14·0	"	Good, fair size and soft.	" ..	" ..	.....	45220a	
" ..	14·0	"	Good, large and soft.	" ..	" ..	.....	45220b	
Raisins in parchment paper in a cardboard carton.	16·0	"	Good, good size and rather dry.	" ..	" ..	.....	45221a	
" ..	16·0	"	" ..	" ..	" ..	.....	45221b	
Currants in parchment paper in a cardboard carton.	14·5	"	Good, large and soft.	" ..	" ..	.....	45222a	
" ..	15·0	"	Good, good size and soft.	" ..	Fairly clean.	.....	45222b	
" ..	14·5	"	Good, fair size and soft.	" ..	Clean ..	.....	45223a	
" ..	14·0	"	Good, large and so t.	" ..	Fairly clean.	.....	45223b	
Raisins in parchment paper in a cardboard carton.	16·0	"	Good, rather small and soft.	" ..	Clean ..	.....	45224a	
" ..	16·0	"	Good, good size and soft.	" ..	" ..	.....	45224b	
" ..	16·5	"	Fair, fair size and soft.	" ..	" ..	.....	45225a	
" ..	16·0	"	Fair, rather small, soft.	A few wither'd	" ..	.....	45225b	
Currants in parchment paper in a cardboard carton.	15·0	"	Good, fair size and pretty soft.	Sound..	" ..	.....	45226a	
" ..	14·5	"	Good, good size and soft.	" ..	" ..	.....	45226b	

E. BELAND, INSPECTOR.

Currants in a cardboard carton.	16·0	Genuine	Poor, fair size, dry	Some mouldy	Not clean.	Mouldy and grit	36553a	Doubtful.
" ..	16·0	"	" ..	Some de- cayed & mouldy	" ..	Dust & mould.	36553b	" ..
Raisins in parchment paper in a cardboard carton.	15·0	"	Very good, good size and soft.	Sound..	Clean ..	.....	36554a	
" ..	14·0	"	Fair, fair size and rather dry.	" ..	Fairly clean.	.....	36554b	
Currants in parchment paper in a cardboard carton.	14·0	"	Good, fair size and soft.	Mostly sound.	" ..	Some gritty matter.	36555a	
" ..	14·0	"	Good, good size and soft.	Sound..	Clean ..	.....	36555b	
Raisins in parchment paper in a cardboard carton.	11·0	"	Good, fair size and soft.	" ..	"	36556a	

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				Quantity.	Cents.		

DISTRICT OF QUEBEC—

1910.							
April 21	Packaged Fruit.	36556b					
" 21	"	36557a	T. U. St. Arneaud, St. Geneviève.	3 pkgs	30	Hudon & Hebert, Montreal.	
" 21	"	36557b					
" 21	"	36558a	D. Baribeau, St. Geneviève.	3 "	30	Laporte - Martin, Montreal.	
" 21	"	36558b					
" 25	"	36559a	T. Gagnon, St. Stanislas.	3 "	30	Unknown	
" 25	"	36559b					
" 28	"	36560a	C. S. Riverin, 55 Rue de la Couronne, Que.	3 "	30	Turcotte & Frere, Quebec	
" 28	"	36560b					
" 28	"	36561a	"	3 "	45	"	
" 28	"	36561b					
" 28	"	36562a	Myrand & Pouliot, 70 Rue de la Couronne, Que.	3 "	36	J. B. Reneaud & Co., Quebec.	
" 28	"	36562b					
" 28	"	36563a	"	3 "	36	"	
" 28	"	36563b					
" 28	"	36564a	"	3 "	36	"	
" 28	"	36564b					
" 28	"	36565a	O. Lacroix, 19 Rue St. Joseph, Que.	3 "	36	N. Turcotte & Co., Quebec.	
" 28	"	36565b					
" 28	"	36566a	"	3 "	30	J. B. Renaud & Co., Quebec.	
" 28	"	36566b					
" 28	"	36567a	Cantin & Frere, 271 Rue St. Joseph, Que.	3 "	30	"	
" 28	"	36567b					

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Raisins in parchment paper in a cardboard carton.	10.5	Genuine	Poor, fair size and dry.	A few decayed	Not clean.	Some insect excreta.	36556b	Adulterated under Sec. 3 (e).
" " "	15.0	"	Good, large and soft.	Sound ..	Clean ..	.....	36557a
" " "	15.5	"	Good, large and rather dry.	" ..	" ..	.....	36557b
" " "	15.5	"	Good, fair size and soft.	" ..	" ..	.....	36558a
" " "	15.5	"	Good, rather small, soft.	" ..	" ..	.....	36558b
Currants in parchment paper in a cardboard carton.	14.5	"	Good, fair size, soft	" ..	Fairly clean.	36559a	
" " "	15.0	"	Good, large and soft.	" ..	" ..	.....	36559b
Raisins in parchment paper in a cardboard carton.	12.0	"	Bad, fair size and soft.	Contains many worms.	Dirty...	Worms and excreta.	36560a	"
" " "	12.5	"	Bad, rather small, old and dry.	Mostly decayed	" ..	Insect excreta.	36560b	
Currants in parchment paper in a cardboard carton.	15.0	"	Good, rather small	Sound ..	Clean	36561a	
" " "	15.0	"	Fair, fair size and rather dry.	" ..	Fairly clean.	Gritty matter.	36561b	
Raisins in a cardboard carton.	15.0	"	Good, rather small	" ..	Clean	36562a	
" " "	15.0	"	Good, small and soft.	" ..	" ..	.....	36562b
Raisins in parchment paper in cardboard carton.	11.0	"	Good, good size and soft.	" ..	"	36563a	
" " "	12.0	"	Fair, fair size and dry.	" ..	" ..	.....	36563b
" " "	14.5	"	Fair, good size, very dry.	" ..	"	36564a	
" " "	16.0	"	Fair, small and dry	" ..	Fairly clean.	.....	36564b
" " "	13.0	"	Good, fair size and soft.	" ..	"	36565a	
" " "	16.0	"	Bad, large and very dry.	Some decayed	Dirty...	Insect excreta.	36565b	
Currants in parchment paper in cardboard carton.	14.5	"	Good, large and soft.	Sound ..	Clean	36566a	
" " "	14.0	"	"	" ..	"	36566b	
Raisins in parchment paper in cardboard carton.	15.0	"	"	" ..	"	36567a	
" " "	15.5	"	"	" ..	"	36567b	

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DISTRICT OF ST. HYACINTHE—

1910.							
April 21	Currants..	40480a	Roger & Fissette, Sherbrooke.	3 pkgs	38	'Chariot' brand.
" 21	" ..	40480b	.....	.....	.....	.....	" ..
" 21	Raisins...	40481a	" ..	3 "	38	.....	'Easter' brand .
" 21	" ...	40481b	.....	.....	.....	.....	" ..
" 25	" ...	40482a	Gum & Elliott, Richmond, P.Q.	3 "	30	.....	'Gold Bar' brand
" 25	" ...	40482b	.....	.....	.....	.....	" ..
" 25	Currants..	40483a	H.P.Wales, Richmond, P.Q.	3 "	30	.....	'Venus' brand..
" 25	" ..	40483b	.....	.....	.....	.....	" ..
May 2	" ..	40484a	Boright & Safford, Sutton, P.Q.	3 "	30	.....	'Royal' brand..
" 2	" ..	40484b	.....	.....	.....	.....	" ..
" 2	Raisins...	40485a	" ..	3 "	30	.....	'Raven' brand .
" 2	" ...	40485b	.....	.....	.....	.....	" ..
" 2	" ...	40486a	E. B. Presly, Sutton, P.Q.	3 "	30	.....	'Daphne' brand
" 2	" ...	40486b	.....	.....	.....	.....	" ..
" 2	Currants..	40487a	H. W. Call, Sutton, P.Q.	3 "	25	.....	'Parthenon' brand.
" 2	" ..	40487b	.....	.....	.....	.....	" ..
" 2	Dates	40488a	Smith, Flannery & Jenne, Sutton, P.Q.	3 "	25	.....	'Camel' brand..
" 2	"	40488b	.....	.....	.....	.....	" ..
" 3	Raisins...	40489a	Hebert & Jolin, Waterloo, P.Q.	3 "	30	.....	'Griffin' brand..
" 3	" ...	40489b	.....	.....	.....	.....	" ..
" 3	Currants..	40490a	N. O. Rockwell, Waterloo, P.Q.	3 "	30	'Quaker' brand.
" 3	" ..	40490b	" ..
" 3	Dates ...	40491a	W. R.. Horner, Granby, P.Q.	3 "	30	'Royal Excelsior' brand.

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J. J. COSTIGAN, ACTING INSPECTOR.

Currants in parchment paper in cardboard carton.	15.0	Genuine	Fair, good size, rather dry.	Mostly sound.	Fairly clean.	40480a	
" " "	15.0	"	Fair, fair size and soft.	Sound..	"	A little gritty matter.	40480b	
Raisins in parchment paper in cardboard carton.	16.0	"	Fair, large and soft	"	Clean	.....	40481a	
" " "	15.5	"	Good, good size and soft.	"	"	.....	40481b	
" " "	16.0	"	Good, large and soft.	"	"	.....	40482a	
" " "	15.5	"	Good, very large and soft.	"	"	.....	40482b	
Currants in parchment paper in cardboard carton.	15.0	"	Good, large and soft.	"	"	.....	40483a	
" " "	16.0	"	Large and fairly soft.	"	Fairly clean.	.....	40483b	
" " "	14.0	"	Large, fair size and soft.	"	Clean	.....	40484a	
" " "	13.5	"	Large and soft....	"	"	.....	40484b	
Raisins in parchment paper in cardboard carton.	14.5	"	Fair size, but dried up.	"	Fairly clean.	.....	40485a	
" " "	16.0	"	Fair, fair size and soft.	"	"	.....	40485b	
" " "	16.0	"	Good, fair size; a little dry.	"	Clean	.....	40486a	
" " "	16.0	"	Good size and rath- er dry.	"	"	.....	40486b	
Currants in parchment paper in cardboard carton.	14.5	"	Good, fair size and soft.	"	"	.....	40487a	
" " "	15.0	"	"	"	Fairly clean.	.....	40487b	
Dates in parchment paper in a cardboard carton.	13.0	"	Good, good size and soft.	"	Clean	.....	40488a	
" " "	14.0	"	Good, fair size and dry.	"	"	.....	40488b	
Raisins in parchment paper in a cardboard carton.	16.0	"	Good, good size and soft.	"	"	.....	40489a	
" " "	16.0	"	Good, large and soft.	"	"	.....	40489b	
Currants in parchment paper in a cardboard carton.	15.5	"	"	"	"	40490a	
" " "	16.0	"	"	"	"	40490b	
Dates in parchment paper in a cardboard carton.	15.0	"	"	"	"	40491a	

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				Quantity.	Cents.		

DISTRICT OF ST. HYACINTHE—

1910.							
May	3 Dates....	40491b					'Royal Excelsior brand.
"	3 Currants..	40492a	W. R. Horner, Granby, P.Q.	3 pkgs	30		'Mistlece' brand
"	3 " ..	40492b					" ..
"	3 Raisins...	40493a	Monty Freres, Granby, P.Q.	3 "	45		'King Edward brand.
"	3 " ..	40493b					" ..
"	3 Currants..	40494a	"	3 "	30		'Purity' brand..
"	3 " ..	40494b					" ..

DISTRICT OF MONTREAL—

April	19 Raisins...	1121a	J. B. A. Valois, Vaudreuil.	3 pkgs	36	L. Chaput fils & Co., Montreal.	
"	19 " ..	1121b					
"	19 " ..	1122a	G. Daoust & Cie, St. Anne de Bellevue.	3 "	35	Unknown	
"	19 " ..	1122b					
"	21 Currants..	1123a	The Industrial Co-op. Soc., Ltd., Valleyfield	3 "	30	Laporte, Martin & Co., Montreal.	
"	21 " ..	1123b					
"	29 Dates	1124a	A. Allard, Lachine....	3 "	25	Unknown	
"	27 " ..	1124b					
May	3 Currants..	1125a	Mde. J os. Gervais, Verdun, P.Q.	3 "	30	Larue & Cloutier, Montreal.	
"	3 " ..	1125b					
"	3 Raisins...	1126a	W. Hynes, Chateauguay, P.Q.	3 "	36	Lalonde & Deroches, Montreal.	
"	3 " ..	1126b					
"	3 Figs	1127a	C. J. Spenard, 420 St. Jas. E., Montreal.	3 boxes	45	Lockerby Bros., Montreal	
"	3 " ..	1127b					
"	6 Dates	1128a	Geo. Primeau, 1392 St. Denis St., Montreal.	3 pkgs	30	Callaghan & Collins....	
"	6 " ..	1128b					

SESSIONAL PAPER No. 14

PACKAGED FRUIT.

Kind of Fruit and Nature of Package.	RESULTS OF ANALYSIS.						No. of Sample.	Remark and opinion of the Chief Analyst.
	Net weight of contents in ounces.	Specific identity.	Quality and size of fruit.	Soundness or decay.	Cleanliness.	Nature of foreign mat- ter if any.		

J. J. COSTIGAN, ACTING INSPECTOR—*Concluded.*

Dates in parchment paper in a cardboard carton.	15.0	Genuine	Good, large and soft.	A few decayed	Fairly clean.		40491b	
Currants in a cardboard carton.	15.0	"	"	Sound	Clean		40492a	
" " "	15.0	"	Good, good size and soft.	"	Fairly clean.	Gritty matter.	40492b	
Raisins in a cardboard carton.	15.5	"	Fair, small and rather dry.	"	Clean		40493a	
" " "	15.5	"	"	"	Fairly clean.	Dust...	40493b	
Currants in parchment paper in a cardboard carton.	14.5	"	Good, good size and soft.	"	Clean		40494a	
" " "	14.5	"	Good, large and soft.	"	"		40494b	

J. C. ROULEAU, ACTING INSPECTOR.

Raisins in parchment paper in a cardboard carton.	16.0	Genuine	Fair, small and soft.	Sound	Clean		1121a	
" " "	15.0	"	Good, good size and soft.	"	Fairly clean.		1121b	
" " "	16.5	"	Good, good size, rather dry.	"	Clean		1122a	
" " "	16.0	"	Good, fair size, soft	"	"		1122b	
Currants in parchment paper in a cardboard carton.	14.5	"	Good, good size and a little dry.	Mostly sound.	Not very clean.		1123a	
" " "	14.0	"	Fair, fair size and soft.	A few decayed	Fairly clean.		1123b	
Dates in parchment paper in a cardboard carton.	14.5	"	Good, large and soft.	Sound	Clean		1124a	
" " "	13.0	"	"	"	"		1124b	
Currants in parchment paper in a cardboard carton.	15.5	"	"	"	"		1125a	
" " "	15.0	"	Good, good size and soft.	"	Fairly clean.		1125b	
Raisins in parchment paper in a cardboard carton.	15.0	"	Fair size but rather dry.	"	"		1126a	
" " "	14.0	"	"	"	"		1126b	
Figs in a wooden box.	14.5	"	Good, large and soft.	"	Clean		1127a	
" " "	14.5	"	Good, large, rather dry.	"	"		1127b	
Dates in fancy paper.	16.0	"	Good, large and soft.	"	"		1128a	
Dates in parchment paper in a cardboard carton.	16.5	"	"	"	"		1128b	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.		

DISTRICT OF MONTREAL—

1910							
May 6	Figs.....	1129a	J. O. Dégiel, 630 Parc Lafontaine, Montreal	3 pkgs	30	Unknown .....	.....
" 3	"	1129b	.....	.....	.....	.....	.....
" 6	Raisins...	1130a	L. Galarneau, 680 Papineau St., Montreal.	3 "	36	Hudon, Hebert & Co., Montreal.	.....
" 6	"	1130b	.....	.....	.....	.....	.....
" 6	Figs	1131a	N. Seguin, 1458 Ontario E., Montreal.	3 "	25	" .....	.....
" 6	"	1131b	.....	.....	.....	.....	.....
" 10	Raisins...	1132a	T. Auclair, Chambly Canton.	3 "	36	L. Chaput fils & Co., Montreal.	.....
" 10	"	1132b	.....	.....	.....	.....	.....
" 11	"	1133a	William Augéne, 57 Craig St., Montreal.	2 "	20	Michel Nassif, Montreal.	.....
" 11	"	1133b	.....	.....	.....	.....	.....
" 11	Dates	1134a	M. Adelson, 91 Craig W., Montreal.	3 "	30	M. L. Rickner & Co., Montreal.	.....
" 11	"	1134b	.....	.....	.....	.....	.....
" 11	Raisins...	1135a	Arsene Lamy, 481 Notre Dame W., Montreal.	3 "	30	Vendor .....	.....
" 11	"	1135b	.....	.....	.....	.....	.....

DISTRICT OF OTTAWA

April 20	Raisins...	42958a	A. J. McAdam, Almonte.	3 pkgs	30	Robertson & Nicolle, Kingston.	'Elk' brand ...
" 20	"	42958b	.....	.....	.....	.....	" ..
" 20	Currants..	42959a	Fred W. Robertson, Almonte.	3 "	30	Gilmour & Co., Brockville.	'Toto' brand...
" 20	"	42959b	.....	.....	.....	.....	" ..
" 21	Raisins...	42960a	D. J. McDonald, Alexandria.	3 "	30	Forbes Bros., Montreal.	'Dragon' brand
" 21	"	42960b	.....	.....	.....	.....	" ..
" 21	Currants .	42961a	P. A. Huot & Son, Alexandria.	3 "	30	Unknown.....	'Royal Excelsior' brand.
" 21	"	42961b	.....	.....	.....	.....	" ..

SESSIONAL PAPER No. 14
PACKAGED FRUIT.

Kind of Fruit and Nature of Package.	RESULTS OF ANALYSIS.						No. of Sample.	Remarks and opinion of the Chief Analyst.
	Net weight of contents in ounces.	Specific identity.	Quality and size of fruit.	Soundness or decay.	Cleanliness.	Nature of foreign mat- ter if any.		

J. C. ROULEAU, ACTING INSPECTOR—*Concluded.*

Figs in a wooden box.	8.5	Genuine	Bad, good size, very dry.	Wormy.	Dirty.	Worms & worm excreta.	1129a	Adulterated under Sec. 3 (e).
" " "	8.0	"	Bad, large, old, dry	Decayed and wormy	"	"	1129b	
Raisins in parchment paper in a cardboard carton.	16.0	"	Good, large and soft.	Sound	Clean		1130a	
" " "	15.5	"	"	"	"		1130b	
Figs in a fancy basket.	9.0	"	Good, good size and soft.	"	"		1131a	
" " "	9.0	"	Fair, good size, rather dry.	"	Fairly clean.		1131b	
Raisins in parchment paper in a cardboard carton.	16.0	"	Good, large and soft.	"	Clean		1132a	
" " "	15.0	"	Good, good size and soft.	"	"		1132b	
" " "	10.5	"	Fair, fair size, rather dry.	"	Fairly clean.		1133a	
" " "	11.0	"	Good, good size and a little dry.	"	Clean		1133b	
Dates in parchment paper in a cardboard carton.	13.0	"	Good, good size and soft.	"	"		1134a	
" " "	13.5	"	Good, large and soft.	"	"		1134b	
Raisins in parchment paper in a cardboard carton.	16.0	"	Good, fair size and soft.	"	"		1135a	
" " "	16.0	"	"	"	"		1135b	

J. A. RICKEY, INSPECTOR.

Raisins in parchment paper in a cardboard carton.	15.5	Genuine	Good, small and soft.	Sound	Clean		42958a	
" " "	15.5	"	"	"	"		42958b	
Currants in parchment paper in a cardboard carton.	16.0	"	Good, good size and soft.	"	"		42959a	
" " "	15.5	"	"	"	"		42959b	
Raisins in parchment paper in a cardboard carton.	12.5	"	Good, fair size and soft.	"	"		42960a	
" " "	11.5	"	Good, good size and soft.	"	Fairly clean.		42960b	
Currants in parchment paper in a cardboard carton.	14.0	"	"	"	Clean		42961a	
" " "	13.5	"	Good, large and soft.	"	"		42961b	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.		
DISTRICT OF OTTAWA—							
1910.							
April 21	Raisins...	42962a	Sabourin & Campeau, Alexandria.	3 pkgs	35	Unknown	'Our Own' brand
" 21	" ..	42962b	.....	.....	.....	.....	" ..
" 22	Dates	42963a	P. J. Campbell, Renfrew.	3 "	30	Unknown	'Camel' brand..
" 22	" ..	42963b	.....	.....	.....	.....	" ..
" 22	Raisins...	42964a	N. Dean & Son, Renfrew.	3 "	30	Robertson & Nicolle, Kingston.	'Polley' brand .
" 22	" ..	42964b	.....	.....	.....	.....	" ..
" 27	Apples....	42965a	J. F. McEwen, Bank St., Ottawa.	3 "	15	Unknown.....	'Royal' brand..
" 27	" ..	42965b	.....	.....	.....	.....	" ..
" 27	Raisins ..	42966a	W. B. Graham, Bank St., Ottawa.	3 "	38	Unknown ..	'Regal' brand..
" 27	" ..	42966b	.....	.....	.....	.....	" ..
" 27	Dates	42967a	Calderone & Bossio, Ottawa.	3 "	30	Corby & Foulkes, Ottawa	'Royal Excelsior' brand.
" 27	" ..	42967b	.....	.....	.....	.....	" ..
" 28	Currants ..	42968a	R. McGregor, Sparks St., Ottawa.	3 "	30	F. J. Castle Co., Ottawa	'Globe' brand..
" 28	" ..	42968b	.....	.....	.....	.....	" ..
" 28	" ..	42969a	C. B. McLean, Bank St., Ottawa.	3 "	30	Rose & Laflamme, Montreal.	'Mistletoe' brand.
" 28	" ..	42969b	.....	.....	.....	.....	" ..
" 28	" ..	42970a	A. Parkinson & Son, Kemptville, Ont.	3 "	30	Unknown	'Toto' brand...
" 28	" ..	42970b	.....	.....	.....	.....	" ..
" 29	" ..	42971a	Jas. L. P. Sanders, Kemptville, Ont.	3 "	30	Unknown.....	'Swan' brand ..
" 29	" ..	42971b	.....	.....	.....	.....	" ..
" 29	Raisins...	42972a	Mundle & Percival, Kemptville, Ont.	3 "	30	Unknown.....	'Griffin's Seedless' brand.
" 29	" ..	42972b	.....	.....	.....	.....	" ..
DISTRICT OF KINGSTON—							
April 15	Raisins...	44277a	A. Glover, Kingston..	3 pkgs	45	Griffin & Skelley Co., Fresno, Cal.	.....

SESSIONAL PAPER No. 14

PACKAGED FRUIT.

Kind of Fruit and Nature of Package.	RESULTS OF ANALYSIS.						Remarks and opinion of the Chief Analyst.
	Net weight of contents in ounces.	Specific identity.	Quality and size of fruit.	Soundness or decay.	Cleanliness.	Nature of foreign mat- ter if any.	

J. A. RICKEY, INSPECTOR.—*Concluded.*

Raisins in parchment paper in a cardboard carton.	16.5	Genuine	Good, large and soft.	Sound..	Clean ..		42962a	
" " "	16.0	"	Good, large, rather dry.	" ..	" ..		42962b	
Dates in parchment paper in a cardboard carton.	14.5	"	Poor, good size and soft.	Some decay.	Not clean.		42963a	
" " "	13.5	"	Good, fair size and soft.	Sound..	Clean ..		42963b	
Raisins in parchment paper in a cardboard carton.	15.5	"	Good, good size and soft.	" ..	" ..		42964a	
" " "	16.0	"	Good, rather small and soft.	" ..	" ..		42964b	
Evaporated apples in cardboard carton.	7.5	"	Poor, good size, but broken.	Fairly sound	Dirty...	Fly excreta	42965a	Doubtful.
" " "	7.0	"	" " "	" ..	" ..		42965b	"
Raisins in cardboard carton.	15.5	"	Bad condition and small.	Decayed	Dirty ..		42966a	Adulterated
" " "	15.5	"	Bad, small and dry, much decayed.	Unfit for use	Dirty ..	Insect excreta.	42966b	under See 3 (c)
Dates in parchment paper in a cardboard carton.	14.0	"	Good, good size and soft.	Sound..	Fairly clean		42967a	
" " "	14.0	"	Good, large and soft.	" ..	Clean ..		42967b	
Currants in cardboard carton.	15.0	"	Good, good size, soft.	" ..	" ..		42968a	
" " "	15.0	"	Good, large and soft.	" ..	" ..		42968b	
" " "	14.5	"	Fair, fair size.....	" ..	Fairly clean		42969a	
" " "	15.5	"	Good, large and soft.	" ..	Clean ..		42969b	
Currants in parchment paper in a cardboard carton.	14.5	"	Good, good size and soft.	" ..	Clean ..		42970a	
" " "	14.5	"	" " "	" ..	" ..		42970b	
" " "	15.0	"	Good, large and soft.	Mostly sound	Fairly clean.		42971a	
" " "	15.5	"	" " "	" ..	Clean		42971b	
Raisins in a cardboard carton.	16.0	"	Good, small and dry.	Sound..	" ..		42972a	
" " "	16.0	"	Good, small and soft.	" ..	" ..		42972b	

JAS. HOGAN, INSPECTOR.

Raisins in parchment paper in a cardboard carton.	16.0	Genuine	Good, large and soft.	Sound..	Clean ..		44277a	
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Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.		
DISTRICT OF KINGSTON							
1910.							
April 15	Raisins.	44277b					
" 15	"	44278a	S. T. Kirk, Kingston..	3 pkgs	38		' Polly ' brand
" 15	"	44278b					
" 15	"	44279a	A. Stover, Kingston ..	3 "	30	J. K. Armsby Co., Fresno, Cal.	"
" 15	"	44279b					
" 15	"	44280a	C. Lithon, Kingston ..	3 "	30		' Sun ' brand.
" 15	"	44280b					
" 15	"	44281a	C. H. Pickering, Kings- ton.	3 "	30	J. K. Armsby Co., Fresno, Cal.	"
" 15	"	44281b					
" 19	"	44282a	J. Harker, Belleville..	3 "	38	H. P. Eckardt, Toronto.	
" 19	"	44282b					
" 19	"	44283a	Geo. Boyle, Kingston.	3 "	38		' Anchor ' brand.
" 19	"	44283b					"
" 19	Currants.	44284a	J. Panter, Kingston...	3 "	30	Hills Bros., New York..	
" 19	"	44284b					
" 19	Raisins.	44285a	Beverly & McDonald, Picton.	3 "	36	Griffin & Skelley, Fresno, Cal.	
" 19	"	44285b					
" 20	"	44286a	H. Crozier, Cobourg ..	3 "	37	" "	
" 20	"	44286b					
" 20	"	44287a	W. D. Stephens, Port Hope.	3 "	38	" "	
" 20	"	44287b					
" 20	"	44288a	F. H. Brown, Port Hope.	3 "	36	" "	
" 20	"	44288b					
" 21	"	44289a	A. Parison, Peterboro.	3 "	30	" "	
" 21	"	44289b					
" 21	"	44290a	P. S. White, Peterboro	3 "	35	" "	
" 21	"	44290b					
" 21	"	44291a	W. H. Hamilton, Peter- boro.	3 "	25	Vendor.	
" 21	"	44291b				"	

SESSIONAL PAPER No. 14

PACKAGED FRUIT.

Kind of Fruit and Nature of Package.	RESULTS OF ANALYSIS.						No. of Sample.	Remarks and opinion of the Chief Analyst.
	Net weight of contents in ounces.	Specific identity.	Quality and size of fruit.	Soundness or decay.	Cleanliness	Nature of foreign mat- ter if any.		
JAS. HOGAN, INSPECTOR— <i>Concluded.</i>								
Raisins in parchment paper in a cardboard carton.	16.0	Genuine	Good, very large and soft.	Sound	Clean		44277b	Adulterated under sec. 3 (c).
" " "	14.5	"	Good, rather small and soft.	"	"		44278a	
" " "	15.0	"	Fair, " "	"	Fairly clean		44278b	
" " "	15.5	"	Good, size and soft	Sound	Clean		44279a	
" " "	15.0	"	Good, fair size and soft.	"	"		44279b	
" " "	16.0	"	Fair, small and soft	Mostly sound	Fairly clean		44280a	
" " "	15.5	"	" "	"	"	Dust...	44280b	
" " "	16.5	"	Good, good size and soft.	Sound	Clean		44281a	
" " "	16.0	"	Fair, fair size and dry.	"	Fairly clean		44281b	
" " "	16.0	"	Good, large and soft.	"	Clean		44282a	
" " "	15.5	"	" "	"	"		44282b	
" " "	14.5	"	" "	"	"		44283a	
" " "	16.0	"	" "	"	Fairly clean		44283b	
Currants " "	14.5	"	" "	"	Clean		44284a	
" " "	14.5	"	" "	"	"		44284b	
Raisins in parchment paper in a cardboard carton.	15.0	"	Fair, good size and soft.	A few worms.	Not clean.	Worms.	44285a	
" " "	15.5	"	Good, very large and soft.	Sound	Clean		44285b	
" " "	13.0	"	Good size, dry can- died.	"	"		44286a	
" " "	13.5	"	" "	"	"		44286b	
" " "	16.0	"	Good, large and soft.	"	"		44287a	
" " "	15.5	"	" "	"	"		44287b	
" " "	14.0	"	Good size and soft.	"	"		44288a	
" " "	15.5	"	" "	"	"		44288b	
" " "	11.0	"	Fair size and soft.	"	"		44289a	
" " "	11.0	"	" "	"	Fairly clean.		44289b	
" " "	14.5	"	Large and soft	"	Clean		44290a	
" " "	14.5	"	" "	"	"		44290b	
Raisins in a cardboard carton.	15.0	"	Fair, large and rat- her dry.	A few mouldy.	Fairly clean.	Mould.	44291a	Doubtful.
" " "	15.0	"	Poor, large but dried up.	"	"	"	44291b	"

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				Quantity.	Cents.		

DISTRICT OF TORONTO—

1910.								
May	5	Raisins..	45022a	Ford & Brittin, Wel-	3 pkgs	39	Home Packing Co., Cali-	'Keystone' brand
				land.			fornia.	
"	5	"	45022b					
"	6	Dates...	45023a	Beestry & Co., Ridge-	3 "	30	The Hills Bros. Co.,	'Royal Excelsior
				way.			New York.	brand.
"	6	"	45023b					
"	10	Figs.....	45024a	R. H. Watson, St.	3 boxes	30	J. F. Festing, St. Cath-	Layer Figs A.E.
				Catherines.			erines.	
"	10	"	45024b					
"	11	Raisins...	45025a	Wm. H. Newman,	3 "	35	Geo. E. Bristol, Hamilton	'Raven' brand.
				Niagara Falls.				
"	11	"	45025b					
"	11	Dates....	45026a	The Marland Wood-	3 "	21	Unknown.....	'Dromedary'
				nough Co., Niagara				brand.
				Falls Centre.				
"	11	"	45026b					
"	14	Figs.....	45027a	F. R. Martin, 479 King	3 pkgs	30	Balfour Smye & Co.,	Turkish Figs....
				St. E., Hamilton.			Hamilton.	
"	14	"	45027b					
"	14	Prunes..	45028a	H. Taylor, 563 King St.	3 "	30	Geo. E. Bristal & Co.,	'Gold Medal'
				E., Hamilton.			Hamilton.	brand.
"	14	"	45028b					
"	14	Raisins...	45029a	Peebles, Hobson & Co.,	3 "	38	Griffin & Skelley Co.,	'GriffinsSeedless
				Ltd., Hamilton.			California.	brand.
"	14	"	45029b					
"	17	Figs.....	45030a	E. Hanks, 197 Wilton	3 "	30	White & Co., Toronto...	'Coronet' brand.
				Ave., Toronto.				
"	17	"	45030b					
"	21	Dates....	45031a	Chas. Stewart, 664	3 "	30	Groceries Ltd., Toronto.	'Eagle' brand..
				Queen St., West, Tor-				
				onto.				
"	21	"	45031b					
"	21	Figs.....	45032a	W. H. Breen, 663	3 "	30	White & Co., Fruit	'BuffaloSelected
				Queen St., West			Merchants, Toronto.	brand.
				Toronto.				
"	21	"	45032b					
"	21	"	45033a	John Bond, 559 Queen	3 "	30	Eby Blain, Ltd., Toronto	'Anchor' brand
				St., West Toronto.				
"	21	"	45033b					

SESSIONAL PAPER No. 14

PACKAGED FRUIT.

Kind of Fruit and Nature of Package.	RESULTS OF ANALYSIS.						No. of Sample.	Remarks and opinion of the Chief Analyst.
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H. J. DAGER, INSPECTOR.

Raisins in parchment paper in a cardboard carton.	14.5	Genuine	Good, fair size and soft dry.	Sound..	Fairly clean.	45022a	
" " "	15.0	"	Fair, fair size and rather dry.	" ..	" ..	.....	45022b	
Dates in parchment paper in a cardboard carton.	13.5	"	Good large and soft.	" ..	Clean...	.....	45023a	
" " "	14.5	"	Good, large and fairly soft.	" ..	Fairly clean.	.....	45023b	
Figs in a wooden box..	14.0	"	Good, good size, a little dry.	" ..	Clean..	.....	45024a	
" " "	14.0	"	Good, large and rather dry.	" ..	Fairly clean.	.....	45024b	
Raisins in parchment paper in a cardboard carton.	15.0	"	Good, large and soft.	" ..	Clean ..	.....	45025a	
" " "	15.5	"	Fair, fair size and dry.	" ..	Fairly clean.	.....	45025b	
Dates in fancy paper ..	12.0	"	Good, large and soft.	" ..	Clean ..	.....	45026a	
" " "	13.0	"	Good, large and a little dry.	" ..	" ..	.....	45026b	
Figs in fancy paper. ..	16.0	"	Good, large and soft.	" ..	Fairly clean.	.....	45027a	
" " "	16.5	"	" " "	" ..	Clean ..	.....	45027b	
Prunes in parchment paper in a cardboard carton.	14.5	"	Good, fair size and soft.	" ..	" ..	.....	45028a	
" " "	14.5	"	Very good, large and soft.	" ..	" ..	.....	45028b	
Raisins in a cardboard carton.	16.0	"	Good, small and fairly soft.	" ..	" ..	.....	45029a	
" " "	16.0	"	Good, small and soft.	" ..	" ..	.....	45029b	
Figs in a wooden box..	5.5	"	Good, good size and soft.	" ..	" ..	.....	45030a	
" " "	6.0	"	Good, large, rather dry.	" ..	" ..	.....	45030b	
Dates in parchment paper in a cardboard carton.	13.0	"	Good, large and dry.	" ..	" ..	.....	45031a	
" " "	12.5	"	Good, large and fairly soft.	" ..	" ..	.....	45031b	
Figs in a wooden box..	11.0	"	Good, large and soft.	" ..	" ..	.....	45032a	
" " "	8.5	"	Good, good size and rather dry.	" ..	Fairly clean.	.....	45032b	
Raisins in parchment paper in a cardboard carton.	15.0	"	Good, fair size and soft.	" ..	Clean	45033a	
" " "	16.0	"	Good, large and soft.	" ..	"	45033b	

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				Quantity.	Cents.		

DISTRICT OF TORONTO—

1910.							
May	21	Figs.....	45034a	A. Kinsman, 253 Victoria St., Toronto.	3 pkgs	30	L. F. Griffin & Co., '33' brand..... Fowler, Cal.
"	21	"	45034b	.....	.....	.....	.....
"	21	Dates	45035a	Wm. Masson, 184 Queen St., West Toronto.	3 "	15	Clems Bros., Toronto.... 'Camel' brand..
"	21	"	45035b	.....	.....	.....	.....
"	21	"	45036a	M. Cowan, 274 Parliament St., Toronto.	3 "	15	Medland Bros, Toronto . 'National' brand.
"	21	"	45036b	.....	.....	.....	.....

DISTRICT OF LONDON—

May	5	Raisins...	42304a	W. R. Smith, Seaforth	3 lbs..	30	A. M. Smith & Co., London.	'Polly' brand ..
"	5	"	42304b	.....	.....	.....	.....	" ..
"	5	"	42305a	Thos. Daly, Seaforth..	3 " ..	30	Stratford Wholesale Grocery Co.	'Blue Standard brand.
"	5	"	42305b	.....	.....	.....	.....	" ..
"	5	"	42307a	O. C. Whitely, Seaforth	3 pkgs	30	A. M. Smith & Co., London.	'Red' brand....
"	5	"	42307b	.....	.....	.....	.....	" ..
"	5	"	42309a	Harrison Wiltse, Clinton.	3 " .	30	E. Adams & Co., London	'Ellis' brand. ..
"	5	"	42309b	.....	.....	.....	.....	" ..
"	5	Dates	42310a	B. A. McEwan, Clinton	3 " .	30	Elliott Marr, London....	'Royal Excelsior' brand.
"	5	"	42310b	.....	.....	.....	.....	" ..
"	6	"	42313a	Jones & May, Exeter..	3 " .	30	A. M. Smith & Co., London.	'Dromedary' brand.
"	6	"	42313b	.....	.....	.....	.....	" ..
"	3	Raisins...	42583a	W. R. Butcher, St. Mary's.	3 lbs..	35	Elliott Marr, London....	'Purple & Gold' brand.
"	3	"	42583b	.....	.....	.....	.....	" ..
"	3	"	42588a	A. Beattie & Co., St. Mary's.	3 " ..	30	" ..	'Ellis' brand. ..
"	3	"	42588b	.....	.....	.....	.....	" ..
"	4	"	42589a	Mrs. Jane Davis, Stratford.	3 " ..	30	Grocers, Ltd., Toronto..	'Ensign' brand.

SESSIONAL PAPER No. 14

PACKAGED FRUIT.

Kind of Fruit and Nature of Package.	RESULTS OF ANALYSIS.						No. of Sample.	Remarks and opinion of the Chief Analyst.
	Net weight of contents in ounces.	Specific identity.	Quality and size of fruit.	Soundness or decay.	Cleanliness.	Nature of foreign mat- ter if any.		

H. J. DAGER, INSPECTOR—*Concluded.*

Raisins in parchment paper in a cardboard carton.	16.0	Genuine	Good, good size and fairly soft.	Sound..	Clean ..	.....	45034a	
" " ..	14.5	"	Good, good size and soft.	" ..	" ..	.....	45034b	
Dates in parchment paper in a cardboard carton.	13.0	"	Fair, large and rat- her dry.	Mostly sound.	Not very clean.	.....	45035a	
" " ..	13.0	"	Good, good size and a little dry.	" ..	" ..	.....	45035b	
Dates in parchment paper.	7.0	"	Good, large and soft.	Sound..	Clean ..	.....	45036a	
" " ..	8.0	"	Fair, rather small and dry.	" ..	Fairly clean.	.....	45036b	

JNO. TALBOT, ACTING INSPECTOR.

Raisins in parchment paper in a cardboard carton.	15.5	Genuine	Good, good size and rather dry.	Sound..	Clean ..	.....	42304a	
" " ..	15.5	"	Good, good size and soft.	" ..	" ..	.....	42304b	
" " ..	15.0	"	Good size & quality but dry.	" ..	" ..	.....	42305a	
" " ..	15.5	"	Fair, Small and rather dry.	Mostly sound.	Fairly clean.	.....	42305b	
" " ..	15.5	"	Good, large and soft.	Sound..	Clean ..	.....	42307a	
" " ..	15.5	"	"	" ..	" ..	.....	42307b	
" " ..	15.0	"	"	" ..	" ..	.....	42309a	
Currants in parchment paper in a cardboard carton.	14.5	"	"	" ..	" ..	.....	42309b	
Dates in parchment paper in a cardboard carton.	16.5	"	Good, good size and soft.	" ..	Fairly clean.	.....	42310a	
" " ..	15.0	"	"	" ..	Clean ..	.....	42310b	
" " ..	14.0	"	Good, large and soft.	" ..	" ..	.....	42313a	
" " ..	15.0	"	"	" ..	" ..	.....	42313b	
Raisins in parchment paper in a cardboard carton.	15.5	"	"	" ..	" ..	.....	42583a	
" " ..	14.5	"	"	" ..	" ..	.....	42583b	
" " ..	15.5	"	"	" ..	" ..	.....	42588a	
" " ..	15.0	"	Fair, large and very soft.	Found 1 worm.	Fairly clean.	A worm	42588b	Doubtful.
" " ..	16.0	"	Good, large and rather dry.	Sound..	Clean ..	.....	42589a	

Date of Collection.		Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).
					Quantity.	Cents.		
DISTRICT OF LONDON—								
1910								
May	4	Raisins...	42589 ^b	.....				' Ensign ' brand.
"	4	" ...	42590 ^a	H. T. Barker, Stratford	3 lbs..	38	T. Michael Harding, Stratford.	' Maud B.' brand.
"	4	" ...	42590 ^b	.....				" ..
"	4	" ...	42594 ^a	E. O. Flaherty, Stratford.	3 pkgs	25	Balfour Syme Co., Hamilton.	' Gordon ' brand.
"	4	" ...	42594 ^b	.....				" ..
"	4	" ...	42595 ^a	Knechtel Grocery Co., Stratford.	3 "	38	Elliott Marr & Co., London.	' Raven ' brand.
"	4	" ...	42595 ^b	.....				" ..
"	4	" ...	42597 ^a	A. G. Loyd, Stratford.	3 "	37	A. M. Smith & Co., London.	' Red ' brand...
"	4	" ...	42597 ^b	.....				" ..
DISTRICT OF WINDSOR—								
April 18		Raisins...	42546 ^a	Jackson & Son, Guelph	3 lbs..	30	T. F. Griffin & Co., Fowler, Cal.	.....
"	18	" ...	42546 ^b	.....				" ..
"	18	" ...	42549 ^a	A. J. Groom, Guelph..	3 pkgs	38	Eby Blain Co., Toronto..	' Nonpareil ' brand.
"	18	" ...	42549 ^b	.....				" ..
"	18	Dates	42552 ^a	S. E. Wiggins, Guelph	3 "	25	Hills Bros. Co., New York.	' Royal Excelsior ' brand.
"	18	" ...	42552 ^b	.....				" ..
"	19	"	42560 ^a	L. Bruegeuman, Waterloo, Ont.	3 lbs..	30	Davidson & Hay, Toronto	' Dromedary ' brand.
"	19	"	42560 ^b	.....				" ..
"	19	Raisins...	42561 ^a	G. W. Dodds, Waterloo, Ont.	3 "	30	Rundall & Ross, Berlin..	' Polly ' brand.
"	19	" ...	42561 ^b	.....				" ..
"	20	" ...	42563 ^a	John Ritchie, Galt....	3 "	30	California F. C. Assoc...	C.F.C. A. Fancy Seeded Raisins
"	20	" ...	42563 ^b	.....				" ..
"	20	Dates ..	42564 ^a	Hollands & Macauley, Galt.	3 "	25	Hills Bros. Co., New York.	' Royal Excelsior ' brand.
"	20	"	42564 ^b	.....				" ..
"	21	Raisins...	42569 ^a	John Scott & Co., Woodstock.	3 "	30	Jas. Lumsden & Co., Toronto.	' Griffin ' brand.
"	21	" ...	42569 ^b	.....				" ..

SESSIONAL PAPER No. 14

PACKAGED FRUIT.

Kind of Fruit and Nature of Package.	RESULTS OF ANALYSIS.						No. of Sample.	Remarks and opinion of the Chief Analyst.
	Net weight of contents in ounces.	Specific identity.	Quality and size of fruit.	Soundness or decay.	Cleanliness.	Nature of foreign mat- ter if any.		
JNO. TALBOT, ACTING INSPECTOR— <i>Concluded.</i>								
Raisins in parchment paper in a cardboard carton.	14.0	Genuine	Good, very large and a little dry.	Sound..	Clean ..	.....	42589b	
" " "	15.0	"	Good, large and soft.	" ..	" ..	.....	42590a	
" " "	15.5	"	"	" ..	" ..	.....	42590b	
" " "	11.5	"	Good, fair size and soft.	" ..	" ..	.....	42594a	
" " "	11.5	"	Fair, fair size and soft.	" ..	Fairly clean.	.....	594b	
" " "	14.5	"	Good, fair size and soft.	" ..	Clean ..	.....	2595a	
" " "	16.0	"	Good, rather small and soft.	" ..	" ..	.....	42595b	
" " "	15.5	"	Good, large and soft.	" ..	" ..	.....	42597a	
" " "	15.5	"	"	" ..	" ..	.....	42597b	

JNO. TALBOT, INSPECTOR.

Raisins in parchment paper in a cardboard carton.	14.5	Genuine	Good, large and a little dry.	Sound..	Clean ..	.....	42546a	
" " "	16.0	"	Good, good size and soft.	" ..	" ..	.....	42546b	
" " "	15.5	"	Good, large and soft.	" ..	" ..	.....	42549a	
" " "	15.0	"	Good, large, dry and candied.	" ..	" ..	.....	42549b	
Dates.....							42552a	
Dates in parchment paper in a cardboard carton.	14.0	Genuine	Good, large and soft.	" ..	" ..	.....	42552b	
Dates in a fancy paper.	11.0	"	Poor, good size, very dry.	Some decayed	Not clean.	Dust....	42560a	Doubtful.
" " "	14.0	"	Good, large and soft.	Sound..	Clean ..	.....	42560b	
Raisins in parchment paper in a cardboard carton.	15.5	"	"	" ..	" ..	.....	42561a	
" " "	15.0	"	Good, good size and soft.	" ..	" ..	.....	42561b	
" " "	16.5	"	Good, large and a little dry.	" ..	" ..	.....	42563a	
" " "	15.5	"	"	" ..	" ..	.....	42563b	
Dates in parchment paper in a cardboard carton.	14.5	"	Good, large and soft.	" ..	" ..	.....	42564a	
" " "	13.5	"	"	" ..	" ..	.....	42564b	
Raisins in parchment paper in a cardboard carton.	15.0	"	Good, large, rather dry; candied.	" ..	" ..	.....	42569a	
" " "	15.5	"	Fair, large, rather dry; candied.	Found 1 worm.	Fairly clean.	A worm	42569b	Doubtful.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.		

DISTRICT OF WINDSOR—

1910.							
April 21	Raisins...	42570a	A. A. Rayson, Woodstock.	3 lbs.	25	H. P. Eckardt & Co., Toronto.	'Monarch' brand
" 21	" ..	42570b	.....	.....	.....	.....	.....
" 21	" ..	42571a	Wm. Parker, Woodstock.	3 "	25	Grocers Ltd., Toronto..	'Ensign' brand.
" 21	" ..	42571b	.....	.....	.....	.....	.....
21	" ..	42572a	Geo. Parker, Woodstock.	3 "	30	Jas. Lumbers Co., Toronto.	'Griffin' brand.
21	" ..	42572b	.....	.....	.....	.....	.....
" 21	" ..	42574a	A. M. Smith & Son, Woodstock.	3 "	30	Elus Bros., Fresno, Cal..	.....
" 21	" ..	42574b	.....	.....	.....	.....	.....

DISTRICT OF MANITOBA—

April 19	Currants ..	43431a	T. Brown & Co., Pembina St., Winnipeg..	3 pkgs	30	.....	Choicest Currants.
" 19	" ..	43431b	.....	.....	.....	.....	" ..
" 19	Raisins...	43432a	" ..	3 "	30	California Farmers Union Inc., Fresno, Cal.	'Queen Bee' brand.
" 19	" ..	43432b	.....	.....	.....	.....	.....
" 19	" ..	43433a	Geo. T. Grant & Co., Pembina St., Winnipeg.	3 "	40	California Dried Fruit Agency, Fresno, Cal.	'Maltese Cross' brand.
" 19	" ..	43433b	.....	.....	.....	.....	" ..
" 19	Currants...	43434a	" ..	3 "	30	.....	'Taurus' brand.
" 19	" ..	43434b	.....	.....	.....	.....	" ..
" 19	Dates ..	43435a	J. Smith, Pembina St., Winnipeg.	3 "	25	Hills Bros. Co., New York.	'Anchor' brand.
" 19	" ..	43435b	.....	.....	.....	.....	" ..
" 20	Raisins...	43436a	C. Roach, Sargent St., Winnipeg.	3 "	25	Guggenheim & Co., California.	'Daphne' brand.
" 20	" ..	43436b	.....	.....	.....	.....	" ..
" 20	" ..	43437a	" ..	3 "	40	Codville Co., Ltd., Winnipeg	'Gold Standard' brand.
" 20	" ..	43437b	.....	.....	.....	.....	" ..

SESSIONAL PAPER No. 14

PACKAGED FRUIT.

Kind of Fruit and Nature of Package.	RESULTS OF ANALYSIS.						No. of Sample.	Remarks and opinion of the Chief Analyst.
	Net weight of contents in ounces.	Specific identity.	Quality and size of fruit.	Soundness or decay.	Cleanliness.	Nature of foreign mat- ter if any.		

JNO. TALBOT, INSPECTOR—*Concluded.*

Raisins in parchment paper in a cardboard carton.	16.0	Genuine	Good, large and soft.	Sound..	Clean ..	.....	42570a	
" " ..	15.5	"	" "	"	"	.....	42570b	
" " ..	14.5	"	Good, good size and fairly soft.	"	"	.....	42571a	
" " ..	13.5	"	Good, large and soft.	"	"	.....	42571b	
" " ..	15.5	"	Good, large and fairly soft.	"	"	.....	42572a	
" " ..	16.0	"	Good, large and soft.	"	"	.....	42572b	
" " ..	15.5	"	Good, fair size and soft.	"	"	.....	42574a	
" " ..	14.0	"	Good, good size and soft.	"	"	.....	42574b	

A. C. LARIVIERE, INSPECTOR.

Currants in parchment paper in a cardboard carton.	15.0	Genuine	Good, fair size and soft.	Sound..	Fairly clean.	.....	43431a	
Currants in a card- board carton.	15.0	"	Good, large and soft.	"	"	.....	43431b	
Raisins in parchment paper in a cardboard carton.	15.0	"	" "	"	Clean...	.....	43432a	
" " ..	15.5	"	Fair, fair size and soft.	"	Fairly clean.	.....	43432b	
" " ..	15.0	"	Good, fair size and soft.	"	Clean...	.....	43433a	
" " ..	15.0	"	Good, large and soft.	"	"	.....	43433b	
Currants in parchment paper in a cardboard carton.	14.5	"	Not very good, fair size.	Some decayed	Fairly clean.	.....	43434a	
" " ..	13.5	"	Fair, rather small and soft.	Sound..	"	.....	42434b	
Dates in parchment paper in a cardboard carton.	16.0	"	Good, large and soft.	Sound..	Clean...	.....	43435a	
" " ..	15.0	"	" "	"	Fairly clean.	Dust....	43435b	
Raisins in parchment paper in a cardboard carton.	15.5	"	Good, fair size and soft.	"	Clean...	.....	43436a	
" " ..	15.0	"	Good, rather small and soft.	"	"	.....	43436b	
Raisins in a cardboard carton.	14.0	"	Good, small and soft.	"	"	.....	43437a	
" " ..	15.5	"	Good, small and dry.	"	"	.....	43437b	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.		

DISTRICT OF MANITOBA—

1910.							
April 20	Currants...	43438a	Conley & Yost, Sargent St., Winnipeg.	3 pkgs	30	Foley, Lock, Larson Winnipeg.	' Lock ' brand...
" 20	" ..	43438b	.....	.....	.....	.....	" ..
" 20	Raisins...	43439a	" ..	3 "	40	Campbell Bros. & Wilson, Winnipeg.	' Royal Shield ' brand.
" 20	" ..	43439b	.....	.....	.....	.....	" ..
" 20	" ..	43440a	Clemens, Armason & Palmason, Sargent St., Winnipeg.	3 "	30	J. K. Armsby Co., Fresno, Cal.	' Gordon ' brand.
" 20	" ..	43440b	.....	.....	.....	.....	" ..
" 20	" ..	43441a	" ..	3 "	40	Rosenberg Bros. Co., San Francisco, Cal.	' Monarch ' brand
" 20	" ..	43441b	.....	.....	.....	.....	" ..
" 21	" ..	43442a	Moffet & Douglas, McKenzie St., Winnipeg	3 "	30	L. F. Griffin & Co., Fowler, Cal.	' Red and Gold ' brand.
" 21	" ..	43442b	.....	.....	.....	.....	" ..
" 21	Dates....	43443a	Merchants Ltd., Main St., Winnipeg.	3 "	30	Hills Bros. & Co., New York.	' Royal Excelsior ' brand.
" 21	" ..	43443b	.....	.....	.....	.....	" ..
" 21	Raisins...	43444a	" ..	3 "	30	L. F. Griffin & Co., Fowler, Cal.	' Purple and Gold ' brand.
" 21	" ..	43444b	.....	.....	.....	.....	" ..
" 21	Currants...	43445a	G. Otto, Main St., Winnipeg.	3 "	30	Hills Bros. & Co., New York.	' Royal Excelsior ' brand.
" 21	" ..	43445b	.....	.....	.....	.....	" ..

DISTRICT OF CALGARY—

May 5	Raisins...	43711a	R. Dunn, Medicine Hat.	3 pkgs	40	California Dried Fruit Agency, Fresno, Cal.	.....
" 5	" ..	43711b	.....	.....	.....	.....	.....
" 5	" ..	43712a	H. W. Ireland Co., Medicine Hat.	3 "	40	The W. H. Malkin Co. Ltd., Vancouver, B.C.	' Victoria Cross ' brand.
" 5	" ..	43712b	.....	.....	.....	.....	" ..
" 5	Currants...	43713a	L. B. Cochran, Medicine Hat.	3 "	75	The Codville Co., Ltd., Winnipeg.	.....
" 5	" ..	43713b	.....	.....	.....	.....	.....
" 5	Raisins...	43714a	The D. Milne Co. Ltd., Medicine Hat.	3 "	40	Castle Bros., Fresno, Cal.

SESSIONAL PAPER No. 14

PACKAGED FRUIT.

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	Net weight of contents in ounces.	Specific identity.	Quality and size of fruit.	Soundness or decay.	Cleanliness.	Nature of foreign mat- ter if any.		

A. C. LARIVIERE, INSPECTOR—*Concluded.*

Currants in a card- board carton.	12.5	Genuine	Good, fair size and pretty soft.	Sound..	Clean		43438a	
" " "	13.0	"	Good, good size and soft.	" ..	Fairly clean.		43438b	
Raisins in a cardboard carton.	16.0	"	Good, small and soft.	" ..	Fairly clean.		43439a	
" " "	15.5	"	Poor, small, dry and old.	Some decayed.	Not clean.		43439b	Doubtful.
Raisins in parchment paper in a cardboard carton.	12.5		Good, fair size and soft.	Sound..	Clean ..		43440a	
" " "	11.5	"	Good, good size and rather dry.	" ..	" ..		43440b	
" " "	14.5	"	Good, large and a little dry.	" ..	" ..		43441a	
" " "	15.0	"	Fair, good size but dry.	" ..	Fairly clean.		43441b	
" " "	14.5	"	Good, large and soft.	" ..	Fairly clean.		43442a	
" " "	14.0	"	Fair, rather small and soft.	" ..	" ..		43442b	
Dates in parchment paper in a cardboard carton.	13.5	"	" " "	" ..	" ..		43443a	
" " "	16.0	"	" " "	" ..	" ..		43443b	
Raisins in parchment paper in a cardboard carton.	15.5	"	Fair, fair size and rather dry.	" ..	" ..		43444a	
" " "	14.5	"	Fair, fair size and soft.	" ..	Fairly clean.		43444b	
Currants in parchment paper in a cardboard carton.	14.5	"	Good, large and soft.	" ..	Clean ..		43445a	
" " "	14.0	"	" " "	" ..	" ..		43445b	

R. W. FLETCHER, INSPECTOR.

Raisins in parchment paper in a cardboard carton.	15.5	Genuine	Good, large and soft.	Sound..	Clean		43711a	
" " "	16.0	"	" " "	" ..	" ..		43711b	
" " "	15.0	"	" " "	" ..	" ..		43712a	
" " "	16.0	"	" " "	" ..	" ..		43712b	
Currants in a cardboard carton.	32.0	"	Good, large and fairly soft.	" ..	" ..		43713a	
" " "	31.5	"	Good, large and soft.	" ..	" ..		43713b	
Raisins in parchment paper in a cardboard carton.	15.5	"	" " "	" ..	" ..		43714a	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.		
DISTRICT OF CALGARY—							
1910.							
May 5	Raisins...	43714b					
" 5	Currants..	43715a	The D. Milne Co. Ltd., Medicine Hat.	3 pkgs	40	W. H. Malkin Co, Van- couver, B.C.	
" 5	" ..	43715b					
" 12	Raisins...	43716a	McDonald & Co., Leth- bridge.	3 " ..	40	J. K. Armsby Co., Fres- no, Cal.	
" 12	" ..	43716b					
" 12	Currants..	43717a	The Bentley Co., Leth- bridge.	3 " ..	40	Jas. Turner, Hamilton, Ont.	
" 12	" ..	43717b					
" 12	" ..	43718a	Hudson's Bay Co., Lethbridge.	3 " ..	40	Unknown...	
" 12	" ..	43718b					
" 12	" ..	43719a	H. A. McKillop & Co., Lethbridge.	3 " ..	75	The Codville Co. Ltd., Winnipeg and Brandon	
" 12	" ..	43719b					
" 18	" ..	43720a	Hallier & Aldridge, Ed- monton.	3 " ..	40	Graeco Am. Currant & Supply Co., Jersey City, N.Y.	
" 18	" ..	43720b					
" 18	Raisins...	43721a	C. Campbell & Co., Ed- monton.	3 " ..	40	Guggenhime & Co., Cal- ifornia.	
" 18	" ..	43721b					
" 18	Currants..	43722a	J. H. Morris & Co., Edmonton.	3 " ..	40	Foley Lock & Larsen, Winnipeg.	
" 18	" ..	43722b					
" 18	Raisins...	43723a	G. Berg, Edmonton...	3 " ..	25	Rosenberg Bros. & Co., San Francisco, Cal.	
" 18	" ..	43723b					
" 21	Currants..	43724a	C. J. Winn, Calgary..	3 " ..	40	J. Caramardani & Co., Patras Greece.	
" 21	" ..	43724b					
" 21	Raisins...	43725a	J. A. Nolan, Calgary.	3 " ..	40	Guggenhime & Co., Cal- ifornia.	
" 21	" ..	43725b					

SESSIONAL PAPER No. 14

PACKAGED FRUIT.

Kind of Fruit and Nature of Package.	RESULTS OF ANALYSIS.						No. of Sample.	Remarks and opinion of the Chief Analyst.
	Net weight of contents in ounces.	Specific identity.	Quality and size of fruit.	Soundness or decay.	Cleanliness.	Nature of foreign mat- ter if any.		

R. W. FLETCHER, INSPECTOR—*Concluded.*

Raisins in parchment paper in a cardboard carton.	15.5	Genuine	Good, large and soft.	Sound..	Mostly clean.	.....	43714b	
Currants in a cardboard carton.	13.5	"	Fair, good size and fairly soft.	Mostly sound.	Fairly clean.	....	43715a	
" " ..	13.0	"	Poor, fair size, rather dry.	Some wither'd	Not clean.	Sticks and dust	43715b	Doubtful.
Raisins in parchment paper in a cardboard carton.	12.0	"	Fair, fair size and soft.	Sound..	Clean ..	.....	43716a	
" " ..	12.0	"	Good, fair size and rather dry.	" ..	" ..	.....	43716b	
Currants in a cardboard carton.	15.5	"	Good, good size and soft.	" ..	Fairly clean.	....	43717a	
" " ..	15.5	"	Good, large and soft.	" ..	" ..	.....	43717b	
" " ..	15.5	"	Fair, good size and rather dry.	Mostly sound.	Not clean.	Gritty matter, sticks, &c.	43718a	Doubtful.
" " ..	15.5	"	Good, fair size and little dry.	" ..	" ..	Sticks and dust	43718b	"
" " ..	31.0	"	Good, large and fairly soft.	Sound..	Clean ..	.....	43719a	
" " ..	31.5	"	Good, large and soft.	" ..	Fairly clean.	.....	43719b	
Currants in parchment paper in a cardboard carton.	14.0	"	Good, good size and soft.	" ..	" ..	.....	43720a	
Currants in a cardboard carton.	14.0	"	" " ..	Mostly sound.	" ..	.....	43720b	
Raisins in a cardboard carton.	15.5	"	Good, rather dry, small, candied.	Sound..	Clean ..	.....	43721a	
" " ..	15.0	"	Good, good size, dry and candied.	" ..	" ..	.....	43721b	
Currants in a cardboard carton.	16.0	"	Good, large and soft.	" ..	" ..	.....	43722a	
" " ..	15.5	"	" " ..	" ..	" ..	.....	43722b	
Raisins in parchment paper in a cardboard carton.	11.0	"	" " ..	" ..	" ..	.....	43723a	
" " ..	11.0	"	Fair, good size and fairly soft.	A few wither'd	Fairly clean.	.....	43723b	
Currants in parchment paper in a cardboard carton.	15.0	"	Fair, good size and rather dry.	Sound ..	Clean...	.....	43724a	
" " ..	16.0	"	Fair, large and soft	" ..	" ..	.....	42724b	
Raisins in parchment paper in a cardboard carton.	15.0	"	Fair, small and soft.	" ..	" ..	.....	43725a	
" " ..	14.5	"	Good, fair size and soft.	" ..	" ..	.....	43725b	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.		
DISTRICT OF VANCOUVER							
1910.							
May	5 Raisins...	44840a	The A. & C. Grocery Co., Vancouver, B.C.	3 pkgs	40	Kelly Douglas & Co., Vancouver.	'Nabob' brand.
"	5 "...	44840b					"
"	5 Currants...	44841a	"	3 "	40	Wilson Bros., Victoria, B.C.	'Wilson's Finest brand.
"	5 "...	44841b					"
"	5 Raisins...	44843a	The London Grocery Co. Ltd., Vancouver, B.C.	3 "	30	Rosenberg Bros. & Co., San Francisco, Cal.	'Iris' brand.
"	5 "...	44843b					"
"	5 Currants...	44846a	T. F. McDowell, Vancouver.	3 "	30	Leeson Dickie & Co., Vancouver.	'High Grade brand.
"	5 "...	44846b					"
"	5 Raisins...	44847a	"	3 "	40	Garcia Maggini Co., San Francisco, Cal.	'Bon Ton' brand.
"	5 "...	44847b					"
"	5 Currants...	44850a	J. McTaggart, Vancouver, B.C.	3 "	40	The W. H. Malkin Co., Ltd., Vancouver.	'Preferred Stock brand.
"	5 "...	44850b					"
"	5 Raisins...	44851a	"	3 "	40	"	'Victoria Cross brand.
"	5 "...	44851b					"
"	6 Currants...	44854a	J. S. Foran, Vancouver, B.C.	3 "	30	Kelly Douglas & Co., Vancouver.	'Columbia' brand.
"	6 "...	44854b					"
"	6 Raisins...	44855a	J. S. Foran, Vancouver, B.C.	3 "	30	Kelly, Douglas & Co., Vancouver, B.C.	'Ellis' brand.
"	6 "...	44855b					"
"	6 "...	44857a	F. Filion, Vancouver, B.C.	3 "	45	Rosenberg Bros. & Co., San Francisco, Cal.	'Guardian' brand.
"	6 "...	44857b					"
"	6 Currants...	44859a	J. F. May, Vancouver, B.C.	2 "	25	Hudson's Bay Co., Vancouver.	'Imperial' brand.
"	6 "...	44859b					"
"	8 "...	44876a	West End Grocery, New Westminster, B.C.	3 "	30	The W. H. Malkin Co., Ltd., Vancouver.	'Victoria Cross brand.
"	8 "...	44876b					"
"	8 Raisins...	44877a	"	3 "	40	"	"
"	8 "...	44877b					"

SESSIONAL PAPER No. 14

PACKAGED FRUIT.

Kind of Fruit and Nature of Package.	RESULTS OF ANALYSIS.						No. of Sample.	Remarks and opinion of the Chief Analyst.
	Net weight of contents in ounces.	Specific identity.	Quality and size off fruit.	Soundness or decay.	Cleanliness.	Nature of foreign mat- ter if any.		
Raisins in parchment paper in a cardboard carton.	16.5	Genuine	Good, large and soft.	Sound..	Clean ..		44840a	
" " ..	16.0	"	" " ..	" ..	" ..		44840b	
Currants in a cardboard carton.	15.5	"	" " ..	" ..	" ..		44841a	
" " ..	14.0	"	" " ..	" ..	" ..		44841b	
Raisins in parchment paper in a cardboard carton.	16.0	"	" " ..	" ..	" ..		44843a	
" " ..	16.0	"	" " ..	" ..	" ..		44843b	
Currants in a cardboard	14.5	"	Good, fair size and soft.	" ..	" ..		44846a	
" " ..	14.0	"	Good; large and soft.	Mostly sound.	Fairly clean.		44846b	
Raisins in parchment paper in a cardboard carton.	16.0	"	" " ..	" ..	" ..		44847a	
" " ..	15.5	"	Fair, small and rather dry.	" ..	" ..		44847b	
Currants in a cardboard carton.	13.5	"	Fair, large and soft	" ..	" ..		44850a	
" " ..	13.0	"	Fair, good size, fairly soft.	Mostly sound.	Clean ..		44850b	
Raisins in parchment paper in a cardboard carton.	17.0	"	" " ..	Sound..	" ..		44851a	
" " ..	16.5	"	" " ..	" ..	" ..		44851b	
Currants in a cardboard carton.	14.0	"	Fair, good size and soft.	" ..	Fairly clean.		44854a	
" " ..	14.0	"	" " ..	" ..	" ..		44854b	
Raisins in parchment paper in a cardboard carton.	16.0	"	Good, good size and a little dry.	" ..	Clean ..		44855a	
" " ..	15.5	"	Fair, fair size, dry.	" ..	" ..		44855b	
" " ..	15.0	"	Fair, good size and soft.	" ..	Fairly clean.		44857a	
" " ..	16.0	"	Fair, few rather small, soft.	Some with'er'd	Clean ..		44857b	
Currants in a cardboard carton.	15.0	"	Good, large and soft.	Sound..	" ..		44859a	
" " ..	15.5	"	" " ..	Mostly sound.	" ..		44859b	
" " ..	14.5	"	" " ..	" ..	Fairly clean.	Some gritty matter.	44876a	
" " ..	14.0	"	Fair, good size and soft.	" ..	" ..	Gritty matter.	44876b	
Raisins in parchment paper in a cardboard carton.	17.5	"	" " ..	Sound..	Clean ..		44877a	
" " ..	16.5	"	Good, large and fairly soft.	" ..	" ..		44877b	

D. O'SULLIVAN, ACTING INSPECTOR.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.		
DISTRICT OF VANCOUVER—							
1910.							
May	8 Dates.....	44881a	Pure Food Supply Co., New Westminster.	3 pkgs	30	Leeson, Dickie & Goss, New Westminster.	Golden Dates...
"	8 "	44881b	.....	.....	.....	.....	" ..
DISTRICT OF VICTORIA--							
April	26 Raisins...	37901a	G. S. Pearson & Co., Nanaimo, B.C.	3 pkgs	30	W. H. Malkin & Co., Vancouver.	'Red Cross' brand.
"	26 "	37901b	.....	.....	.....	.....	" ..
"	26 Dates.....	37902a	A. R. Johnson & Co., Nanaimo, B.C.	3 "	40	Niles Bros. Co., New York.	.....
"	26 "	37902b	.....	.....	.....	.....	.....
"	26 Raisins...	37903a	Jas. Hirst, Nanaimo, B.C.	3 "	30	Unknown.....	'Columbia' brand
"	26 "	37903b	.....	.....	.....	.....	" ..
"	26 Currants..	37904a	J.A.Macdonald, Nanaimo, B.C.	3 "	30	S. Leiser & Co., Victoria, B.C.	'Lord Roberts' brand.
"	26 "	37904b	.....	.....	.....	.....	" ..
"	26 Raisins...	37905a	F.X.Jones, Ladysmith, B.C.	3 "	45	Rosenberg Bros. & Co., San Francisco, Cal.	.....
"	26 "	37905b	.....	.....	.....	.....	.....
"	28 "	37906a	H. Kirkham, Victoria, B.C.	3 "	45	California Dried Fruit Agency, Fresno, Cal.	.....
"	28 "	37906b	.....	.....	.....	.....	.....
"	28 "	37907a	Baileys Cash Grocery, Victoria, B.C.	3 "	30	Ellis Bros., California...	.....
"	28 "	37907b	.....	.....	.....	.....	.....
"	28 Figs	37908a	E. E. Plummer, Victoria, B.C.	3 "	30	W. H. Malkin & Co., Vancouver.	.....
"	28 "	37908b	.....	.....	.....	.....	.....
"	28 Raisins...	37909a	E. C. Kaufman, Victoria, B.C.	3 "	30	S. Leiser & Co., Victoria	.....
"	28 "	37909b	.....	.....	.....	.....	.....
"	28 Dates	37910a	Copas & Young, Victoria, B.C.	3 "	25	Niles Bros. & Co., New York.
"	28 "	37910b

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PACKAGED FRUIT.

Kind of Fruit and Nature of Package.	RESULTS OF ANALYSIS.						No. of Sample.	Remarks and opinion of the Chief Analyst.
	Net weight of contents in ounces.	Specific identity.	Quality and size of fruit.	Soundness or decay.	Cleanliness.	Nature of foreign mat- ter if any.		

D. O'SULLIVAN, ACTING INSPECTOR—*Concluded.*

Dates in a fancy paper	12.5	Genuine	Good, good size and soft.	Sound..	Fairly clean.	.....	44881a	
Dates in parchment paper.	12.5	"	"	"	Clean ..	.....	44881b	

J. F. POWER, ACTING INSPECTOR.

Raisins in parchment paper in a cardboard carton.	15.0	Genuine	Good, large and soft.	Sound..	Clean ..	.....	37901a	
" " "	15.5	"	Good, large, rather dry; candied.	"	"	.....	37901b	
Dates in parchment paper in a cardboard carton.	14.0	"	Good, large, soft..	"	"	.....	37902a	
" " "	14.5	"	"	"	"	.....	37902b	
Raisins in a cardboard carton.	15.5	"	Good, good size and soft.	"	"	.....	37903a	
Raisins in parchment paper in a cardboard carton.	15.5	"	"	"	"	.....	37903b	
Currants in parchment paper in a cardboard carton.	15.0	"	"	"	Fairly clean.	.....	37904a	
Currants in a cardboard carton.	16.0	"	"	"	Clean ..	.....	37904b	
Raisins in parchment paper in a cardboard carton.	15.0	"	"	"	"	.....	37905a	
" " "	16.0	"	"	"	"	.....	37905b	
" " "	17.0	"	Good, large and soft.	"	"	.....	37906a	
" " "	16.0	"	"	"	"	.....	37906b	
" " "	14.5	"	Fair, small and soft	"	"	.....	37907a	
" " "	14.5	"	Good, fair size and soft.	"	Fairly clean.	.....	37907b	
Figs in parchment paper.	12.5	"	Good, large and soft.	"	Clean ..	.....	37908a	
" " "	11.5	"	Good, large, rather dry.	"	Fairly clean.	.....	37908b	
Raisins in parchment paper in a cardboard carton.	15.5	"	Good, large, soft..	"	Clean ..	.....	37909a	
" " "	16.0	"	Good, fair size and soft.	"	"	.....	37909b	
Dates in parchment paper in a cardboard carton.	15.0	"	"	"	"	.....	37910a	
" " "	13.5	"	Good, good size and soft.	"	"	.....	37910b	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.		

DISTRICT OF VICTORIA—

1910.							
May	2	Raisins...	37911a	West End Grocery, Victoria, B.C.	3 pkgs	30	Unknown.....
"	2	" ...	37911b	.....			.....
"	2	" ...	37912a	Dixie H. Ross, Victoria, B.C.	3 "	30	Sastle Bros., Fresno, Cal.
"	2	" ...	37912b	.....			.....
"	2	" ...	37913a	Sanders Grocery, Victoria, B.C.	3 "	30	Ellis Bros., California....
"	2	" ...	37913b	.....			.....
"	2	" ..	37914a	A. Lilly, Victoria, B.C.	3 "	75	Patterson, Victoria.....
"	2	" ...	37914b	.....			.....
"	2	Currants..	37915a	Geo. Paragais, Victoria,	3 "	45	Unknown..... 'Lord Roberts' brand.
"	2	" ..	37915b			" ..

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PACKAGED FRUIT.

Kinds of Fruit and Nature of Package.	RESULTS OF ANALYSIS.						No. of Sample.	Remarks and opinion of the Chief Analyst.
	Net weight of contents in ounces.	Specific identity.	Quality and size of fruit.	Soundness or decay.	Cleanliness.	Nature of foreign mat- ter if any.		

J. F. POWER, ACTING INSPECTOR—*Concluded.*

Raisins in parchment paper in a cardboard carton.	15.5	Genuine	Good, large and soft.	Sound..	Clean...		37911a	
" " "	15.5	"	" "	"	"		37911b	
" " "	16.0	"	" "	"	"		37912a	
" " "	16.0	"	" "	"	"		37912b	
" " "	14.5	"	Fair, small and soft	"	"		37913a	
" " "	14.5	"	Good, fair size, dry	"	"		37913b	
Raisins in fancy paper.		"	Good, large and soft.	"	"		37914a	
" " "	14.5	"	Poor, large but dry	Some decayed	Not clean.	Insect excreta.	37914b	Adulterated under Sec. 3 (e).
Currants in parchment paper in a cardboard carton.	15.0	"	Fair. Some old and dry.	Sound..	Too many stems, not very clean.		37915a	Doubtful.
Currants in a cardboard carton.	14.5	"	Fair, good size, a little dry.	Some wither'd	Fairly clean.	Gritty matter.	37915b	"

APPENDIX H.

BULLETIN No. 213—FERTILIZERS 1910.

OTTAWA, August 12, 1910.

W. J. GERALD, Esq.,

Deputy Minister of Inland Revenue.

SIR,—I beg to hand you a Report upon the Inspection of Fertilizers for the current year. This is the first inspection made under the *Fertilizers Act, 1909*. For the purpose of giving publicity to this Act, I have introduced a copy of the Act,—as an Appendix to this report.

The report deals with 161 samples, of which our inspectors found 97 to be offered for sale under registration numbers, as required by section 7 of the Act. In the cases of 53 other samples, although the registration number was not attached to the sample as offered for sale the description furnished to the inspectors was sufficient to enable us to identify the article, from recorded documents in possession of the department. Although a high degree of certainty attends such identification, it is to be noted (1) that neither vendor nor manufacturer can be legally held responsible for its accuracy, (2) that the fertilizers in question are sold illegally, and the vendor is subject to the penalty prescribed in section 15 of the Act.

Eleven (11) samples, sold without registration numbers, cannot be identified with any registered numbers in the books of this department; and appear to be unregistered.

These samples are clearly sold in violation of the law, and the vendors are subject to the penalties named in section 15.

Interpretation of the results of analysis is strictly speaking, only possible in the cases of the 97 samples sold under registration numbers. Of these samples, 81 (=83·5 per cent) meet the requirements of their guarantee. The deficiency in the remaining 16 samples is usually in potash, and it is fair to remark that in general, the deficiency is very slightly in excess of that permitted by the Act—(sec. 15 allows of a deficiency of not more than one half of one per cent in cases when the total value is essentially, equal to the claim) and is, in some cases compensated by an excess of other valuable ingredients.

Of 53 samples, in whose case identification with registered brands has been attempted at this office, 44 are found to meet the requirements of the registered brands with which they have been so identified. In the 9 instances in which correspondence has not been found, I have considered it better to judge identification as faulty than to declare them adulterated as failing to meet a standard of uncertain application.

The remaining eleven (11) samples are apparently sold without being registered.

The efficiency of the Act of 1909, in protecting purchasers of fertilizers, is dependent upon the registration of all fertilizers offered for sale, and upon their carrying the registration number when actually sold. These conditions are made clear by sections 5 and 7 of the Act; and a penalty is imposed for violation of these conditions by section 15. It may be reasonable to exercise some leniency in this, the first year in which the Act has been operative; but the importance of fulfilling the above named conditions is such that I would respectfully urge the necessity of bringing vendors who neglect registration and proper labelling or tagging, under the penalties named in section 15.

I beg to recommend the publication of this report, with Appendix, as Bulletin No. 213.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,

Chief Analyst,

per ALP. LEMOINE.

(Enclosure)



8-9 EDWARD VII.

CHAP. 16.

An Act respecting Agricultural Fertilizers.

[Assented to 19th May, 1909.]

HIS Majesty, by and with the advice and consent of the Senate and House of Commons of Canada, enacts as follows:—

1. This Act may be cited as *The Fertilizers Act, 1909*. Short title.
2. In this Act, unless the context otherwise requires,— Definitions.
 - (a) "Minister" means the Minister of Inland Revenue; "Minister."
 - (b) "fertilizer" includes every natural or artificial manure containing phosphoric acid, or nitrogen, or potash, except ordinary stable manure; "Fertilizer."
 - (c) "registration number" means the specific number given by the Minister, under this Act, to each brand of fertilizer; "Registration number."
 - (d) "agent" means any person whose name has been filed with the Minister as provided in section 4 of this Act; "Agent."
 - (e) "guaranteed analysis" means the valuation of a fertilizer by the manufacturer or agent in terms of its content of phosphoric acid, nitrogen and potash. "Guaranteed analysis."
3. Fertilizers shall be considered as of distinct brands when differing either in guaranteed composition, trade mark, name, or in any other characteristic method of marking. Distinct brands.
4. Where the manufacturer of any fertilizer has his factory or chief place of business elsewhere than in Canada, he shall file with the Minister the name of a person resident in Canada, and acceptable to the Minister, or a corporation having its head office in Canada, as the agent or representative of such manufacturer for all the purposes of this Act; and any notice to, or communication or dealing with, such agent or representative by the Minister shall be effectual for all the purposes of Name of foreign manufacturer's agent or representative in Canada to be filed with Minister.

Default of filing.	2. In default of such filing, the Minister may take any proceeding or action under this Act <i>ex parte</i> , and without any notice to or communication with such person or corporation.
Registration number.	5. Every brand of fertilizer offered for sale in Canada shall bear a registration number, which shall be permanently assigned to the particular brand or species of fertilizer for which it is issued. The number shall be granted by the Minister on the application of the manufacturer of such brand of fertilizer, or his agent, and on payment of a fee of two dollars.
Fee.	
Application for registration number.	6. Every application for a registration number shall be accompanied by a statement giving the following particulars:— (a) Name of brand for which the registration number is asked, and trade mark, if any; (b) Name and address of manufacturer; (c) Name and address of the person applying for registration; (d) Guaranteed analysis; (e) Materials from which the fertilizer is made.
Registration number, how affixed.	7. The registration number must be affixed by the manufacturer, or agent, in a plain and legible manner, to every package of fertilizer sold or offered for sale, and shall constitute an identification of the brand. In addition to the registration number there must be legibly printed, on every package of fertilizer sold, the statement set out in schedule A to this Act. This condition shall be held to be fulfilled if a printed tag, bearing the registration number and the statement required, is securely attached to the package.
Statement required.	
Notice of change of formula and application for new number.	8. If a manufacturer elects to change the formula or composition of any fertilizer for which a registration number has been granted, he shall notify the Minister to that effect, and shall apply for a new registration number to designate the new or altered fertilizer, and the former registration number shall be cancelled, and shall not be reissued.
Annual license to sell.	9. No manufacturer of a fertilizer, and no agent of any such manufacturer, shall sell or offer for sale any fertilizer, as defined by section 2 of this Act, unless he has a license under this Act authorizing the sale thereof.
Fee.	2. Upon application of any such manufacturer or his agent, and upon payment of a fee of five dollars therefor, the Minister may grant a license authorizing the sale of such brands of fertilizers as are named in the license.
Period of validity.	3. Such license shall be in such form as the Minister prescribes and shall confer authority to sell during the calendar year in which the license is issued.
Renewal.	4. The Minister may renew any such license from year to year.

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10. Any purchaser of a registered fertilizer may obtain from the Minister an analysis of the fertilizer as delivered to him, by making application for such analysis, accompanied by a sample of the fertilizer of at least one pound weight, and taken in accordance with the directions given in schedule B to this Act, and on payment of a fee of one dollar.

Purchaser of registered fertilizer may obtain analysis.

11. The officers of Inland Revenue, the officers of Customs, the inspectors and deputy inspectors of weights and measures, and the inspectors of food, drugs and agricultural fertilizers acting under *The Adulteration Act* shall, when required so to do by any regulation made in that behalf by the Governor in Council or the Minister, act as inspectors of fertilizers, and shall procure and submit for analysis samples of fertilizers offered for sale in Canada.

Certain officers to act as inspectors.

R.S., c. 133.

12. Every inspector of fertilizers shall, whenever instructed by the Minister so to do, obtain for analysis a sample of every fertilizer for sale in the district for which such inspector is appointed.

Inspectors to procure samples for analysis.

2. Every sample so obtained shall be transmitted to the Minister for submission to the chief analyst for analysis; and the result of all such analyses shall be published annually by the Minister in such manner as he sees fit, together with such other information pertaining to fertilizers as he deems it desirable should be published.

Analysis and publication of results.

13. If any fertilizer is imported for the personal use of the importer, and not for sale, this Act shall not apply thereto, but such importer may secure an analysis of the fertilizer, as delivered to him, on application to the Minister and on payment of a fee of five dollars. The sample submitted must be taken in accordance with the requirements of section 10 of this Act.

Fertilizers imported for personal use.

Analysis.

14. This Act shall not apply to fertilizers which are manufactured to the order of the purchaser and are not intended for sale, unless such fertilizers be actually sold by such purchaser; but such purchaser may secure an analysis of the fertilizer as delivered to him, under the conditions stated in section 10 of this Act, on payment of a fee of five dollars.

Fertilizer made to order, and not intended for sale.

Analysis.

15. Every manufacturer or agent, or purchaser in the case provided for in the next preceding section, who sells or offers or exposes for sale any fertilizer in respect of which the provisions of this Act have not been complied with; or who sells or offers or exposes for sale any fertilizer which does not contain the percentage of constituents mentioned in the manufacturer's certificate accompanying such fertilizer, shall be liable in each case to a penalty not exceeding fifty dollars for the first offence, and for each subsequent offence to a penalty not exceeding one hundred dollars.

Penalties for non-compliance with this Act.

Proviso as to evidence of fraudulent intent.

dollars and, in default of payment of such penalty, to imprisonment for thirty days. Provided that a deficiency of one-half of one per cent of the ammonia or its equivalent in nitrogen or nitric acid, or of the phosphoric acid, or of the potash claimed to be contained in the fertilizer, shall not be considered as evidence of fraudulent intent, if the total value of the fertilizer in fertilizing materials is substantially equivalent to the guaranteed statement made by the manufacturer or agent.

Forgery of certificate, registration number, etc.

Penalty.

16. Every person who forges, or utters or uses knowing it to be forged, any manufacturer's certificate, registration number, or certificate of analysis required under this Act, is guilty of an indictable offence, and is liable to imprisonment for a term not exceeding two years, with or without hard labour.

Unlawful use of certificate, registration number, etc.

Penalty.

17. Every person who wilfully applies to any fertilizer a certificate, or tag, or registration number given in relation to any other package or lot of fertilizer, every person who sells an unregistered fertilizer, and every person who lowers the fertilizing value of a registered fertilizer by mixing any other substance therewith, after the said fertilizer has been placed upon the market by the manufacturer or agent, shall be liable, on summary conviction, to a penalty not exceeding five hundred dollars, and in default of payment to imprisonment for a term not exceeding twelve months.

False certificate.

Penalty.

18. Every person who gives a false certificate in writing with respect to a fertilizer sold by him as a principal or agent, shall be liable on summary conviction to a penalty not exceeding five hundred dollars, and in default of payment to imprisonment for a term not exceeding twelve months.

Application of fees and penalties.

19. All fees paid and penalties recovered under this Act shall form part of the Consolidated Revenue Fund of Canada.

R.S., c. 132 repealed.

20. *The Fertilizers Act*, chapter 132 of the Revised Statutes, 1906, is repealed.

Commencement of Act.

21. This Act shall come into force on the first day of January, one thousand nine hundred and ten.

SCHEDULE A.

STATEMENT TO BE ATTACHED TO PACKAGE.

1. (*Name of brand.*)
2. (*Registration number.*)
3. (*Name and address of manufacturer.*)
4. (*Analysis, as guaranteed by the manufacturer.*)

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5. Notice. Any purchaser may have an analysis made by the Department of Inland Revenue, on payment of one dollar. Samples must be taken in conformity with the regulations. For regulations address the Deputy Minister of Inland Revenue, Ottawa.

SCHEDULE B.

INSTRUCTIONS FOR TAKING SAMPLES OF FERTILIZERS TO BE SUBMITTED FOR ANALYSIS IN ACCORDANCE WITH SECTION 10.

Samples of fertilizer submitted by a purchaser for analysis must be inclosed in glass jars or bottles, and properly sealed. The samples must be taken in the presence of the vendor or of his representative.

Process of Sampling.

In lots of five tons, or less, portions shall be drawn from each separate package, and from at least ten packages; or if less than ten packages are present, all shall be sampled. In lots of over five tons, at least ten per cent of the packages shall be sampled. The portions so taken shall be thoroughly mixed in the presence of the parties interested, and from this mixture the sample sent to the Minister is to be taken; and must bear the signature of vendor and purchaser; and at the same time a duplicate sample is to be left with the party whose goods are inspected, subject to the call of the manufacturer or agent.

2 GEORGE V., A. 1912
FERTILIZERS AS SOLD

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cents.	Name and Address of Manufacturer or Furnisher, as given by the Vendor.	Inspector's Report.	Registered Number.
1910								

DISTRICT OF NOVA SCOTIA—

May	6	Stockbridge Manure.	41981	W. O. Bates, Bridg'water, N.S.	5 lbs.	Bowker Fertilizer Co., Boston, Mass.		88
"	6	Potato and Vegetable Phosphate.	41982	" " "	"	" " "		92
"	6	Bradley's Potato Manure.	41983	E. Hebb, Bridgewater, N.S.	"	Am. Agr. Chem. Co., New York.		3
"	6	Pacific Potato Special.	41984	" " "	"	" " "		15
"	9	Swift's Potato Phosphate.	41985	A. J. Walker & Son, Truro, N.S.	"	Swifts Lowell Fertilizer Co., Boston, Mass.		110
"	9	Swift's Lowell Manure.	41986	" " "	"	" " "		114
"	9	Special Potato Phosphate.	41987	Colchester Farmers' Co-op. Asso., Ltd., Truro, N.S.	"	Nova Scotia Fertilizer Co., Halifax, N.S.		40
"	9	Bone Meal.....	41988	" " "	"	" " "		44
"	9	Ten per cent Potato Phosphate.	41989	" " "	"	" " "		(41)
"	9	Basic Slag.....	41990	Jas. Kirkpatrick, Shubenacadie, N.S.	"	Anglo-Continental Guano Works, London, Eng.		(47)
"	9	Basic Slag	41991	Thompson & Crowe Shubenacadie, N.S.	"	R. A. Munro, Glasgow, Scotland.		47
"	10	Grain and Grass Fertilizer.	41992	R. E. Harris & Son, Wolfville, N.S.	"	Essex Fertilizer Co., Boston, Mass.		120
"	10	Complete Manure for Potatoes, Roots and Vegetables.	41993	" " "	"	" " "		119
"	10	Square Brand.....	41994	Burgess & Co., Wolfville, N.S.	"	Bowker Fertilizer Co., Boston, Mass.		95
"	10	Basic Slag	41995	G. F. Roy, Kentville, N.S.	"	Anglo-Continental Guano Works, London, Eng.		106
"	10	Pacific Guano. ...	41996	" " "	"	Am. Agr. Chem. Co., New York.		14

I could not find a number on the bay owing to the fertilizer working through.

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Analysis of Sample.	RESULTS OF ANALYSIS.										Remarks and Opinion of the Chief Analyst.	
	Nitrogen, p.c.		Phosphoric Acid, p.c.						Potash.	Moisture.		Number of Sample.
	Total, including that of nitric acid or ammonia if present.	Total calculated as ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total available.					
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.			

R. J. WAUGH, INSPECTOR.

As guaranteed....	3.29	4	4	2	1	7	6	10	.....	41981	Slightly below guarantee in potash.
As found.	3.12	3.79	4.75	1.48	1.27	7.50	6.23	8.16	.....	.....
As guaranteed....	1.65	2	6	2	1	9	8	2	.....	41982	Up to guarantee.
As found.	1.37	1.67	4.70	4.20	1.90	10.80	8.90	2.02	.....	.....
As guaranteed....	2.06	2.50	6	2	1	9	8	3	.....	41983	" "
As found.	2.02	2.45	6.12	2.03	1.60	9.75	8.15	3.15	.....	.....
As guaranteed....	2.06	2.50	6	2	1	9	8	3	.....	41984	" "
As found.	1.96	2.36	6.12	3.23	1.25	10.60	9.35	3.34	.....	.....
As guaranteed....	2.46	3	4	4	1	9	8	6	.....	41985	" "
As found.	2.38	2.89	4.32	4.51	0.87	9.70	8.83	5.69	.....	.....
As guaranteed....	1.64	2	4	3	1	8	7	4	.....	41986	" "
As found.	2.12	2.58	4.25	3.03	0.97	8.25	7.28	3.76	.....	.....
As guaranteed....	.....	2.5	.....	.....	2	8	6	7	.....	41987	" "
As found.	1.96	2.38	.....	.....	1.92	8.25	6.33	8.69	.....	.....
As guaranteed....	.....	3	.....	.....	.....	23	.....	.....	.....	41988	" "
As found.	2.88	3.50	.....	.....	.....	23.10	.....	.....	.....	.....
As guaranteed....	.....	2.5	.....	.....	2	8	6	10	.....	41989	Up to assumed guarantee.
As found.	2.46	2.99	.....	.....	0.92	8.65	7.73	11.10	.....	.....
As guaranteed....	.....	.....	.....	.....	.....	14	12	.....	.....	41990	" "
As found. ....	.....	.....	.....	.....	.....	14.90	.....	.....	.....	.....
As guaranteed....	.....	.....	.....	.....	.....	14	12	.....	.....	41991	Up to guarantee.
As found. ....	.....	.....	.....	.....	.....	14.50	12.13	.....	.....	.....
As guaranteed....	0.82	1	4	4	1	9	8	4	.....	41992	" "
As found.	0.85	1.04	5.10	2.90	1.25	9.25	8.00	3.78	.....	.....
As guaranteed....	3.28	4	3	3	1	7	6	10	.....	41993	" "
As found.	3.14	3.80	3.37	4.21	1.12	8.70	7.58	10.77	.....	.....
As guaranteed....	1.65	2	4	2	1	7	6	2	.....	41994	" "
As found.	1.65	2	4.12	3.33	1.65	9.10	7.45	1.84	.....	.....
As guaranteed....	.....	.....	.....	.....	.....	13.7	.....	.....	.....	41995	" "
As found. ....	.....	.....	.....	.....	.....	13.40	.....	.....	.....	.....
As guaranteed....	2.06	2.5	6	2	1	9	8	1.5	.....	41996	" "
As found.	1.74	2.21	6.08	2.52	1.35	9.95	8.60	1.56	.....	.....

NOTE—When the registered number is printed within brackets this number has been assigned by reference to the Departmental records. The vendor cannot be held responsible for its accuracy, nor can the manufacturer.

2 GEORGE V., A. 1912
FERTILIZERS AS SOLD

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report.	Registered Number.
1910.								

DISTRICT OF NOVA SCOTIA—

May 11	Special Potato Manure.	41997	C. O. Allen, Kentville, N.-S.	5 lbs.	.....	Alex. Cross & Son, Glasgow, Scotland.	.....	166
" 11	Great Eastern High Grade Potato Manure.	41998	" " ..	5 "	.....	Am. Agr. Chem. Co., New York.	.....	201
" 11	Peruvian Guano ..	41999	C. O. Cook & Son, Waterville, N.-S.	5 "	.....	Nitrate Agencies Co., Toronto.	.....	303
" 11	Berry Brand	42000	Manufacturer.....	5 "	.....	Pidgeon Fertilizer Co., Windsor, N.S.	.....	30

DISTRICT OF PRINCE EDWARD ISLAND—

May 10	Bone and Potash..	38706	R. E. Mutch & Co., Charlottetown.	3 lbs.	...	Nova Scotia Fertilizer Co., Halifax, N.-S.	.....	45
" 10	Ceres Superphosphate.	38707	" " ..	3 "	.....	" " ..	.....	37
" 11	Potato Phosphate.	38708	A. Horne & Co., Charlottetown.	3 "	.....	Swifts Lowell Fertilizer Co., Boston, Mass.	.....	110
" 11	Animal Brand...	38709	" " ..	3 "	.....	" " ..	.....	116
" 11	Bone Fertiliser....	38710	" " ..	3 "	.....	" " ..	.....	113
" 12	Bone Meal.....	38711	R. E. Mutch & Co., Charlottetown.	3 "	.....	Nova Scotia Fertilizer Co., Halifax, N.-S.	.....	44
" 17	Muriate of Potash.	38712	Auld Bros., Charlottetown.	3 "	.....	German Kali Works Germany.	.....	305
" 17	Nitrate of Soda...	38713	" " ..	3 "	.....	W. R. Grace & Co., New York.	Not registered.	(325)
" 17	Superphosphate...	38714	" " ..	3 "	.....	Thos. Vickers & Son, Manchester, G.B.	" ..	(324)
" 17	Superphosphate...	38715	J. H. Gill, Charlottetown.	3 "	.....	A. Cross & Sons, Glasgow.	" ..	(327)
" 17	Nitrate of Soda. ..	38716	" " ..	3 "	.....	Nitrate Agency, New York.	" ..	(255)

DISTRICT OF NEW BRUNSWICK—

April 19	Special Potato Phosphate.	39695	Manufacturers...	3 jars.	10	The Provincial Chem. Fert'lr. Co., Ltd., St. John, N.-B.	63
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SESSIONAL PAPER No. 14

—BULLETIN No. 213.

Analysis of Sample.	RESULTS OF ANALYSIS.										Remarks and Opinion of the Chief Analyst.	
	Nitrogen, p.c.		Phosphoric Acid, p.c.						Potash.	Moisture.		Number of Sample.
	Total, including that of nitric acid or ammonia if present.	Total calculated as ammonia.	Soluble in Water.	Reverted or Ci- trate Soluble.	Insoluble.	Total.	Total available.					
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.					

R. J. WAUGH, INSPECTOR—*Concluded.*

As guaranteed	2.75	3.5	7	8.5	2.5	9	8.5	3.25	8	41997	Up to guarantee.
As found	3.54	4.30	7.17	2.83	1.05	11.05	10.00	3.32	.....	.....
As guaranteed	3.29	4	4	2	1	7	6	10	.....	41998	" "
As found	2.91	3.52	4.90	1.23	1.12	7.25	6.13	9.23	.....	.....
As guaranteed	2.34	2.85	.....	.....	.....	15.25	7.80	2.44	.....	41999	" "
As found	2.80	3.40	.....	.....	2.37	16.60	14.23	3.10	.....	.....
As guaranteed	3.30	4	6	1	2	9	6	10	10	42000	Below guarantee in Nitrogen.
As found	2.24	2.72	4.25	3.80	0.95	9.00	8.05	10.7	.....	.....

THEO. MOORE, INSPECTOR.

As guaranteed . . . . .	.....	2	.....	.....	.....	11	.....	2	.....	38706	Up to guarantee.
As found	2.50	2.80	.....	.....	.....	19.11	.....	3.10	.....	.....
As guaranteed . . . . .	.....	2	.....	.....	2	9	7	2	.....	38707	" "
As found	1.26	1.53	.....	.....	1.12	9.10	7.98	2.45	.....	.....
As guaranteed	2.46	3.00	4	4	1	9	8	6	.....	38708	Below guarantee in total P ₂ O ₅
As found	2.49	3.02	4.12	2.55	1.04	7.71	6.67	5.84	.....	.....
As guaranteed	2.46	3.00	4	4	2	10	8	4	.....	38709	Up to guarantee.
As found	2.49	3.02	5.62	3.48	1.65	10.75	9.10	4.40	.....	.....
As guaranteed	1.64	2	4	4	1	9	8	3	.....	38710	" "
As found	2.01	2.45	4.95	4.35	1.20	10.50	9.30	3.63	.....	.....
As guaranteed . . . . .	.....	3	.....	.....	.....	23	.....	.....	.....	38711	" "
As found	2.54	3.09	.....	.....	.....	23.10	.....	.....	.....	.....
As guaranteed . . . . .	.....	.....	.....	.....	.....	.....	.....	50	.....	38712	" "
As found . . . . .	.....	.....	.....	.....	.....	.....	.....	49.5	.....	.....
As guaranteed	15	.....	.....	.....	.....	.....	.....	.....	.....	38713	Up to assumed guarantee.
As found	15	18.22	.....	.....	.....	.....	.....	.....	.....	.....
As guaranteed . . . . .	.....	.....	.....	.....	.....	.....	16	.....	.....	38714	" "
As found . . . . .	.....	.....	.....	.....	2.15	19.50	17.35	.....	.....	.....
As guaranteed . . . . .	.....	.....	*	.....	.....	.....	.....	.....	.....	38715	" "
As found . . . . .	.....	.....	18.85	.....	.....	18.85	.....	.....	.....	.....
As guaranteed	15	18.3	.....	.....	.....	.....	.....	.....	.....	38716	" "
As found	15.14	18.40	.....	.....	.....	.....	.....	.....	.....	.....

J. C. FERGUSON, INSPECTOR.

As guaranteed	2.5	8	6	39695	Up to guarantee.
As found	2.27	2.75	9.85	8.32	

* 35 per cent phosphate.

2 GEORGE V., A. 1912

FERTILIZERS AS SOLD

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report.	Registered Number.
1910.								

DISTRICT OF NEW BRUNSWICK—

April 19	10 p.c. Complete Aroostook Potato.	39696	Manufacturers ...	3 jars	10	The Provincial Chem Fert'er Co., Ltd., St. John, N.B.		65
" 19	Bone Meal..	39697	"	3 "	10	"		72
" 21	Swifts Lowell Animal Brand.	39698	P. Nase & Son, St. John, N.B.	3 "	15	Swifts Lowell Fert'er Co., Boston, Mass.		116
" 21	Swifts Lowell Potato Manure.	39699	"	3 "	15	"		114
" 21	Swifts Lowell Empress Brand.	39700	"	3 "	15	"		(112)
" 28	Thomas Phosphate Powder (Alberts Basic Slag).	45201	The Anglo Canadian Chem. Co., St. John, N.B.	3 "	15	H. & E. Albert, Londre, Ang.		1
" 28	Special Odourless Potato Phosphate	45202	"	3 "	15	"		142
" 29	Bowkers Potato Phosphate.	45203	D. J. Seely & Son, St. John, N.B.	3 "	15	Bowker Fert'er Co. ... Boston, Mass.		92
" 29	Stockbridge Potato	45204	"	3 "	15	"		88
May 5	Bradleys X. L. Superphosphate of Lime.	45205	A. H. Vanwart, Fredericton, N.B.	3 "	15	The Am. Agr. Chem Co., (Bradley Fert'er Works) Boston & New York.		2
" 5	Bradleys Potato Fertilizer.	45206	"	3 "	15	"		3
" 7	Aroostook Complete Manure.	45207	Solomon Perley, Woodstock, N.B.	3 "	15	The Am. Agr. Chem Co., New York.		184
" 7	Quinnipiac Climax Phosphate	45208	Phillips Estey & Co., Woodstock, N.B.	3 "	15	"		13
" 9	Bradleys High Grade Fertilizer with 10 p.c. Potash.	45209	Guy G. Porter, Perth, N.B.	3 "	15	"		8
" 18	New England Peerless Fertilizer.	45210	The Sussex Mercantile Co., Ltd., Sussex, N.B.	3 "	15	New England Fert'er Co., Boston, Mass.		134
" 18	New England Corn and Grain Fertilizer.	45211	The Sussex Mercantile Co., Ltd., Sussex, N.B.	3 lbs.	15	New England Fertilizer Co., Boston, Mass.		132
" 18	Bowkers Bone and Potash (Square Brand).	45212	W. B. McKay & Co., Sussex, N.B.	3 "	15	Bowker Fertilizer Co., Boston, Mass.		95

* The warehouseman spoke of the Fertilizer as Reads. I give what was on P'kge from which sample was taken.

SESSIONAL PAPER No. 14
—BULLETIN No. 213.

Analysis of Sample.	RESULTS OF ANALYSIS.										Remarks and Opinion of the Chief Analyst.
	Nitrogen, p.c.		Phosphoric Acid, p.c.					Potash.	Moisture.	No. of Sample.	
	Total, including that of nitric acid or ammonia if present.	Total calculated as ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total available.				
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		

J. C. FERGUSON, INSPECTOR—Continued.

As guaranteed		1				8		10		39696	
As found	3.08	3.74				9.20		10.66			Up to guarantee.
As guaranteed		3.10				24.15			6.25	39697	
As found	3.23	3.93				24.00					
As guaranteed	2.46	3	4	4	2	10	8	4		39698	
As found	2.10	2.55	6.37	1.33	2.30	10	7.70	4.09			
As guaranteed	1.64	2	4	3	1	8	7	4		39699	
As found	1.49	1.70	5	2.15	0.85	8	7.15	3.51			Below guarantee in pot-
As guaranteed	1.25	1.50	4	3	1	8	7	2		39700	ash.
As found	1.17	1.42	5.56	3.35	1.15	10.00	8.85	2.51			Up to assumed guaran-
As guaranteed						15				45201	tee.
As found				13.95	2.50	16.45	13.95				Up to guarantee.
As guaranteed	2					7		7		45202	
As found	2.28	2.77				9.10		6.54			
As guaranteed	1.65	2	6	2	1	9	8	2		45203	
As found	1.61	1.95	6	4.10	1.60	11.70	10.10	1.95			
As guaranteed	3.29	4	4	2	1	7	6	10		45204	
As found	3.12	3.79	4.67	2.68	1	8.35	7.35	7.51			Below guarantee in pot-
As guaranteed	2.06	2.5	6	2	1	9	8	1.5		45205	ash.
As found	1.92	2.33	7.07	2.81	1.07	10.95	9.88	2.62			Up to guarantee.
As guaranteed	2.08	2.5	6	2	1	9	8	3		45206	
As found	2.34	2.84	7.10	3.30	1.05	11.45	10.40	3.14			
As guaranteed	2.47	3	4	2	1	7	6	10		45207	
As found	2.35	2.86	5.02	2.23	1.10	8.35	7.25	9.98			
As guaranteed	1.03	1.25	6	2	1	9	8	2		45208	
As found	1.07	1.22	6.90	2.33	1.67	10.95	9.28	2.20			
As guaranteed	2.47	3	4	2	1	7	6	10		45209	
As found	2.49	3.02	4.67	3.56	1.27	9.50	8.23	10.24			
As guaranteed	0.82	1	4	3	1	8	7	1		45210	
As found	1.05	1.28	4.72	2.96	1.37	9.05	7.68	1.42			
As guaranteed	1.22	1.5	4	3	1	8	7	2		45211	
As found	1.37	1.67	4.35	3.28	0.97	8.60	7.63	3.28			
As guaranteed	1.65	2	4	2	1	7	6	2		45212	
As found	1.57	1.90	3.50	5.03	1.57	9.10	8.53	1.47			

2 GEORGE V., A. 1912
FERTILIZERS AS SOLD

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report.	Registered Number.
1910.								
DISTRICT OF NEW-BRUNSWICK-								
May 19	Soluble Pacific Guano.	45213	Toombs & Son, Moncton, N.-B.	3 lbs..	15	The Am. Agr. Chem. Co., New York.		14
" 19	Pacific Potato Special.	45214		3 "	15	"		15
DISTRICT OF QUEBEC--								
May 2	Fruit and Vine...	36588	P. T. Legare, Quebec.			The Am Agr. Chem. Co., Buffalo.	No license on hand.	212
" 2	Virginia Tobacco Fertilizer.	36589	"			"	"	207
" 2	Complete Fertilizer.	36590	"			"	"	(206)
" 2	Homestead High Grade Garden & Vegetable Brand Fertilizer.	36591	"				"	(210)
" 2	Fertilizer.	36592	"			Capelton Chem. & Fert. Co., Buckingham.	"	87
" 2	Defiance Brand...	36593	"			Am. Fertilizer Co., Buffalo.	"	(203)
" 2	Fertilizer.	36594	Manufacturer..			F. C. Marquis, Quebec.	"	?
" 3	Complete Manure.	36595	Julien & Vezina, Quebec.				Impossible to see analysis as it is effaced.	226
" 3	Thomas Phosphate (Basic Slag).	36596	"			Leeds Phosphate Works, Leeds, Eng.		253
" 3	Bilston Basic Slag.	36597	J. B. Reneaud & Cie, Quebec.			British Oil & Cake Mills, Liverpool.		302
DISTRICT OF ST. HYACINTHE--								
April 21	Bradley's Potato..	40285	James F. Kerr, Sherbrooke, P.Q.	3 lbs.		Am. Agr. Chem. Co.		(3)
" 21	Ellipse	40286	"	3 "		"		(4)
" 21	Corn Special.....	40287	J. S. Mitchell & Co., Sherbrooke.	3 "		Capelton Chem. & Fertilizer Co.		(82)
" 21	Royal Canadian ..	40288	"	"		"		(84)
" 21	Capelton	40289	"	"		"		(81)
"	Reliance	40290	"	"		"		(86)

SESSIONAL PAPER No. 14
—BULLETIN No. 213.

Analysis of Sample.	RESULTS OF ANALYSIS.									No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Nitrogen, p.c.		Phosphoric Acid, p.c.					Potash.	Moisture.		
	Total, including that of nitric acid or ammonia if present.	Total calculated as ammonia.	Soluble in Water.	Reverted or Ci- trate Soluble.	Insoluble.	Total.	Total available.				
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.			

J. C. FERGUSON, INSPECTOR—*Concluded.*

As guaranteed	2.06	2.5	6	2	1	9	8	1.5	.....	45213	Up to guarantee.
As found.....	2.02	2.45	5.37	2.08	1.15	9.60	7.45	1.78	.....	.....
As guaranteed	2.06	2.5	6	2	1	9	8	3	.....	45214	"
As found..	2.07	2.52	5.20	3.45	1.40	10.05	8.65	3.24	.....	.....

E. BELAND, INSPECTOR.

As guaranteed	1.65	2	6	2	1	9	8	10	.....	36588	Below guarantee in pot-ash.
As found.....	1.79	2.18	5.25	4.03	1.82	11.10	9.28	8.50	.....	.....
As guaranteed	1.65	2	6	2	1	9	8	4	.....	36589	Up to guarantee.
As found....	1.58	1.92	7.00	1.70	2.00	10.70	8.70	4	.....	.....
As guaranteed	1.65	2	6	2	1	9	8	.....	.....	36590	Apparently in correct identification.
As found.....	1.86	2.26	.....	14.00	4.00	18.00	14.00	.....	.....	.....
As guaranteed	2.06	2.5	6	2	6	9	8	6	.....	36591	"
As found.....	1.45	1.76	7.12	1.33	0.85	9.30	8.45	8.05	.....	.....
As guaranteed	3.29	4	6	2	1	9	8	7	.....	36592	Below guarantee in pot-ash.
As found.....	0.40	0.54	6.00	2.48	1.42	9.90	8.48	1.52	.....	.....
As guaranteed	1.65	2	6	2	1	9	8	2	.....	36593	Up to assumed guarantee
As found....	1.35	1.66	7.52	4.03	1.80	13.35	11.55	3.70	.....	.....
As guaranteed	3.14	3.81	.....	13.10	8.50	21.60	13.10	.....	15.80	36594	Apparently not registered.
As found.....	4.42	5.37	.....	11.95	4.45	16.40	11.95	.....	.....	.....
As guaranteed	2.06	2.5	6	2	1	9	8	3	.....	36595	Up to guarantee.
As found.....	2.17	2.63	5.52	3.21	1.87	10.60	8.73	3.91	.....	.....
As guaranteed . . . .	.....	.....	.....	.....	.....	18	.....	.....	.....	36596	"
As found.....	.....	.....	.....	14.00	1	18.00	14.00	.....	.....	.....
As guaranteed . . . .	.....	.....	.....	15.40	3.85	19.25	.....	.....	.....	36597	"
As found. ....	.....	.....	.....	16.40	3.85	20.25	16.40	.....	.....	.....

J. J. COSTIGAN, ACTING INSPECTOR.

As guaranteed	2.06	2.5	6	2	1	9	8	3	.....	40285	Up to assumed guarantee
As found.....	1.75	2.09	7.12	2.56	1.47	11.15	9.68	3.28	.....	.....
As guaranteed	1.03	1.25	6	2	1	9	8	2	.....	40286	"
As found.....	0.90	1.09	7.35	1.60	2.05	11.00	8.95	2.95	.....	.....
As guaranteed . . . .	.....	1	.....	.....	.....	7	.....	3	.....	40287	"
As found.....	1.03	1.25	.....	.....	.....	11.35	.....	4.19	.....	.....
As guaranteed . . . .	.....	4	.....	.....	.....	9	.....	5	.....	40288	"
As found.....	3.48	4.23	.....	.....	.....	11.20	.....	4.42	.....	.....
As guaranteed . . . .	.....	.....	.....	.....	.....	10	.....	.....	.....	40289	"
As found.....	.....	.....	.....	.....	.....	10.90	.....	.....	.....	.....
As guaranteed	2	.....	.....	.....	.....	.....	.....	6.2	.....	40290	"
As found.....	1.97	2.39	.....	.....	3.60	10.90	7.30	2.81	.....	.....

2 GEORGE I., A. 1912
FERTILIZERS AS SOLD

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cents.	Name and Address of Manufacturer or Furnisher, as given by the Vendor.	Inspector's Report.	Registered Number.
1910								

DISTRICT OF ST. HYACINTHE—

April 27	Pacific Guano....	40291	H. E. Baldwin, Barfour, P.Q.	3 jars.	...	Am. Agr. Chem. Co.	.....	(14)
" 27	Bradley's High Grade.	40292	" " "	"	.....	" " "	.....	(8)
" 27	Fertilizer.....	40293	B. J. Smith & Son, Coaticook, P.Q.	"	.....	Bowker Fert. Co.	.....	(91)
" 27	" " " " "	40294	" " "	"	.....	" " "	.....	?

DISTRICT OF MONTREAL—J. J. COSTIGAN, INSPECTOR

April 20	Victor	1101	A. Dubeau, St. Ré- dempteur.	3 lbs.	.....	Capelton Chem. & Fert. Co., Buck- ingham.	.....	83
" 21	Sure Crop Bone Phosphate.	1102	Besner & Chasle, Valleyfield.	"	.....	Bowker Fert. Co., Boston, Mass.	.....	98
" 22	Celery and Potato.	1103	T. Cogeland, Herd- man's Corner.	"	.....	Buffalo Fert. Co., Buffalo.	.....	57
" 22	Ideal Wheat and Corn.	1104	" " "	"	.....	" " "	.....	56
" 22	Bradley's B.....	1105	Wm. Henderson, Herdman's Cor- ner.	"	.....	The Am. Agr. Chem Co., New York.	.....	259
" 26	Tobacco Manure..	1106	Wm. Ewing & Co. Montreal.	"	.....	Freeman's Fert. Works, Hamil- ton.	.....	149
" 29	Sure Growth Man- ure.	1107	" " "	"	.....	" " "	.....	144
" 29	Potato Manure....	1108	" " "	"	.....	" " "	.....	145
" 26	Victor.....	1109	R. J. Latimer & Co., Montreal.	"	.....	Capelton Chem. & Fert. Co., Buck- ingham.	Could not find a Reg- istration No.	(83)
" 26	Beans and Pota- toes.	1110	Dupuy & Furgu- son, Montreal.	"	.....	The Am. Agr. Chem. Co., New York.	.....	260
" 26	Crockers New Gen- eral Crop.	1111	Lapaille Freres, Lachine.	"	.....	" " "	.....	301
" 27	Milson's Buffalo Guano.	1112	F. H. McKough, Hemmingford.	"	.....	" " "	.....	264
" 28	Victor Guano.....	1113	O. Chevalier & Fils, Joliette.	"	.....	Prov. Chem. Fert. Co., Ltd., St. John, N.B.	.....	68

SESSIONAL PAPER No. 14
—BULLETIN No. 213.

Analysis of Sample.	RESULTS OF ANALYSIS.										Remarks and Opinion of the Chief Aanalyst.
	Nitrogen, p.c.		Phosphoric Acid, p.c.					Potash.	Moisture.	Number of Sample.	
	Total, including that of nitric acid or ammonia if present.	Total calculated as ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total available.				
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	

J. J. COSTIGAN, ACTING INSPECTOR—Concluded.

As guaranteed....	2.06	2.5	6	2	1	9	8	1.5	.....	40291	Up to assumed guarantee
As found.	2.13	2.59	3.25	6.38	1.37	10.90	9.63	2.10	.....	.....
As guaranteed....	2.47	3	4	2	1	7	6	10	.....	40292	" "
As found.	2.63	3.20	4.82	2.50	0.55	7.87	7.32	9.70	.....	.....
As guaranteed....	2.47	3	6	2	1	9	8	4	.....	40293	" "
As found.	2.49	3.03	6.90	2.85	1.60	11.35	9.75	5.89	.....	.....
As guaranteed....	.....	.....	.....	.....	.....	.....	.....	.....	.....	40294	Apparently not registered.
As found. ....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

AND J. C. ROULEAU, ACTING INSPECTOR.

As guaranteed....	.....	2	.....	.....	.....	7	.....	3	.....	1101	Up to guarantee.
As found.	1.89	2.29	.....	.....	.....	10.12	.....	3.88	.....	.....
As guaranteed....	0.82	1	4	2	1	7	6	2	.....	1102	" "
As found.	1.40	1.71	4.80	4.05	3.00	11.85	8.85	1.58	.....	.....
As guaranteed....	1.6	2	6	2	1	9	8	10	.....	1103	Below guarantee in potash.
As found.	1.97	2.38	5.47	2.93	2.10	10.50	8.40	6.23	.....	.....
As gnaranteed....	1.6	2	7	2	1	10	9	5	.....	1104	" "
As found.	1.65	2	5.30	3.25	2.00	10.55	8.55	3.44	.....	.....
As guaranteed....	0.82	1	6	2	1	9	8	4	.....	1105	Up to guarantee.
As found.	0.95	1.16	6.52	3.01	1.27	10.80	9.53	3.86	.....	.....
As guaranteed....	2.47	3	5	2	0.25	7.25	7	5	8	1106	" "
As found.	2.35	2.86	4.77	2.73	2.25	9.75	7.50	10.05	.....	.....
As guaranteed....	2.89	3.5	5	3	0.25	8.25	8	3	8	1107	" "
As found.	3.12	3.80	4.55	4.60	2.05	11.20	9.15	3.74	.....	.....
As guaranteed....	2.47	3	5	3	0.25	8.25	8	5	8	1108	" "
As found.	3.15	3.82	3.75	3.30	3.70	10.75	7.05	6.62	.....	.....
As guaranteed....	.....	2	.....	.....	.....	7	.....	3	.....	1109	Up to assumed guarantee
As found.	2.13	2.58	.....	.....	.....	9.30	.....	2.92	.....	.....
As guaranteed....	0.82	1	6	2	1	9	8	4	.....	1110	Up to guarantee.
As found.	0.78	0.94	7.00	2.25	1.55	10.80	9.25	4.01	.....	.....
As guaranteed. .	0.82	1	6	2	1	9	8	1	.....	1111	"
As found.	1.14	1.39	6.85	1.50	2.00	10.35	8.35	1.54	.....	.....
As guaranteed....	0.82	1	6	2	1	9	8	4	.....	1112	Below guarantee in po-ash.
As found.	0.90	1.09	5.95	3.75	1.40	11.10	9.70	2.94	.....	.....
As guaranteed....	.....	2	.....	.....	.....	7	.....	2.5	.....	1113	Up to guarantee.
As found.	1.45	1.76	.....	.....	.....	8.95	.....	5.67	.....	.....

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report.	Registered Number.
1910.								

DISTRICT OF MONTREAL—J. J. COSTIGAN, INSPECTOR

May	3	Phosphate for Grass.	1114	O. Chevalier et fils, Joliette.	3 lbs.	Glencarmuck Phosph. Works.	Could not find place where made.	254
"	3	No. 1	1115	Vessot & Cie, Joliette.	3 "	Capelton Chem. & Fert. Co., Buckingham.	.....	81
"	4	Crockers High Grade Special Fertilizer.	1116	J. A. Piette, Berthierville.	3 "	The Am. Agr. Chem. Co. New York.	.....	261
"	4	Michigan Carbon Works Virginia Tobacco Fertilizer.	1117	O. Piette, Berthierville.	3 "	Mfg. by Michigan Carbon Works for Am. Agr. Chem. Co.	.....	207
"	4	Crockers Complete Manure.	1119	W. M. Rennie, Ltd., Montréal.	3 "	Am. Agr. Chem. Co.	.....	193
"	11	Milson's Special Bean and Grain.	40163	Wm. Anderson, Herdman, P.Q.	3 " .....	" " .....	.....	(263)
"	21	Fertilizer.....	40164	J. B. Walsh, Orms-town, P.Q.	3 "	Buffalo Fert. Co.	.....	?

DISTRICT OF OTTAWA—

April	13	Sure Growth Manure.	42947	Kenneth McDonald & Sons, Ottawa.	3 lbs. 12	The W. A. Freeman Co., Ltd., Hamilton.	Could find no Reg. No. on bags.	(144)
"	13	Celery and Early Vegetable Manure	42948	" " ..	3 " .. 13	" " ..	" ..	[(148)
"	13	Tankage.....	42950	Graham Bros., Ottawa.	3 " .. 5	" " ..	" ..	(150)
"	13	Bone Meal.	42951	" " ..	3 " .. 5	" " ..	.....	146
"	13	Bradley's Complete Manure for Potatoes and Vegetables.	42952	" " ..	3 " .. 10	The Am. Agr. Chem. Co., New York.	.....	191
"	18	Standard Fertilizer	42953	Manufacturers . .	3 " .. Nil	The Standard Fert. and Chem. Co., Smith's Falls.	.....	280
"	18	Watch 'em Grow..	42954	"	3 " .. "	" ..	.....	282
"	18	Phosphate Plaster.	42955	"	3 " .. "	" ..	.....	283
"	19	Capelton Fertilizers.	42956	"	3 " .. "	Capelton Chem. & Fert. Co., Buckingham.	.....	87
"	19	Victor.....	42957	"	3 " .. "	" ..	.....	83

SESSIONAL PAPER No. 14
—BULLETIN No. 213.

Analysis of Sample.	RESULTS OF ANALYSIS.									Number of Sample.	Remarks and Opinion of the Chief Analyst.
	Nitrogen, p.c.		Phosphoric Acid, p.c.					Potash.	Moisture.		
	Total, including that of nitric acid or ammonia if present,	Total calculated as ammonia.	Soluble in Water.	Reverted or Ci- trate Soluble.	Insoluble.	Total.	Total available.				
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				

AND J. C. ROULEAU, ACTING INSPECTOR—*Concluded.*

As guaranteed						*				1114	Up to guarantee.
As found.				12.18	4.77	16.95	12.18				
As guaranteed						10				1115	"
As found.						11.40					
As guaranteed	1.65	2	6	2	1	9	8	4		1116	"
As found.	1.58	1.92	6.77	9.28	1.42	10.70	9.28	4.33			
As guaranteed	1.65	2	6	2	1	9	8	4		1117	"
As found.	1.51	1.84	6.67	1.96	1.87	10.50	8.63	5.64			
As guaranteed	0.82	1	6	2	1	9	8	4		1119	"
As found.	0.98	1.19	7.35	1.40	1.25	10.00	8.75	3.78			
As guaranteed			8	2	1	11	10	8		40163	Up to assumed guarantee
As found.			9.40	0.90	0.70	11.00	10.30	9.65			
As guaranteed										40164	Apparently not registered.
As found.											

J. A. RICKEY, INSPECTOR.

As guaranteed	2.89	3.5	5	3	0.25	8.25	8	3	8	42947	Up to assumed guarantee
As found.	3.35	4.07				11.30		4.19			
As guaranteed	4.12	5	5.5	3.5	0.25	9.25	9	5	8	42948	"
As found.	4.34	5.27				9.10		4.88			
As guaranteed		6				13				42950	"
As found.	5.99	7.27				16.25					
As guaranteed	2.47	3		20	1	21	20		9	42951	Up to guarantee.
As found.	4.07	4.95		17.00	5.20	22.20	17.00				
As guaranteed	3.29	4	6	2	1	9	8	7		42952	"
As found.	3.36	4.08	7.77	2.21	0.62	10.60	9.98	7.66			
As guaranteed	2	2.4	8	1	5	14	9	2	8	42953	"
As found.	2.13	2.58	8.12	2.38	6	16.50	10.50	3.01			
As guaranteed		4					9	8		42954	"
As found.	4.09	4.94		10.60	0.40	11.00	10.60	7.57			
As guaranteed					5	5				42955	"
As found.					4.62	9.80	5.18				
As guaranteed						10				42956	"
As found.						12.15					
As guaranteed		2				7		3		42957	"
As found.	2.12	2.58				9.00		3.70			

* 2½ per cent Sol. Phosphate.
14—11½

2 GEORGE V., A. 1912

FERTILIZERS AS SOLD

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report.	Registered Number.
1910.								

DISTRICT OF KINGSTON—

April 19	Sea Fowl Guano ..	44292	Earl Spencer, Pic-ton.	3 lbs..	10	Am. Agr. Chem. Co., Buffalo.	.....	(188)
" 19	High Grade Potash	44293	" ..	3 " ..	10	" ..	.....	(182)
" 19	Complete Manure.	44294	" ..	3 " ..	10	" ..	.....	?
" 20	Bone and Potash..	44295	Thompson & Mc-Donald, Cobourg	3 " ..	10	W.A.Freeman Co., Hamilton.	.....	(147)
" 20	Potato Manure....	44296	" ..	3 " ..	10	" ..	.....	(145)
" 20	Sure Growth Man-ure.	44297	" ..	3 " ..	10	" ..	.....	(144)
" 20	Lawn Fertilizer...	44298	" ..	3 " ..	10	" ..	.....	(157)

DISTRICT OF TORONTO—

May 5	Crocker's Best Pot-ash Fertilizer.	45037	R. Moore & Son, Welland.	4 lbs..	15	Am. Agr. Chem. Co., Buffalo.	.....	194
" 6	Crocker's Potato Special, Wheat and Corn Fertilizer.	45038	Jno. McLeod, Sr., Ridgeway.	4 " ..	15	" ..	.....	195
" 6	Farmers Choice...	45039	B. L. Edgecombe, Dunville.	4 " ..	15	The Buffalo Fertilizer Co., Buffalo	.....	55
" 9	Celery and Potato Special.	45040	J. E. Barrick, Port Colborne.	4 " ..	15	The Buffalo Fertilizer Co., Buffalo.	.....	57
" 10	Bradleys, B.D. Sea fowl guano.	45041	Titterington Bro., St. Catharines.	4 " ..	15	The Am. Agr. Chem. Co., Buffalo.	.....	188
" 10	Davies Blood meat and Bone.	45042	The St. Catharines Cold Storage Co. Ltd. St. Catharines.	4 " ..	15	The Wm. Davies Co., Ltd., Toronto.	.....	304
" 12	Lawn Fertilizer...	45043	J. R. Black, St. Catharines.	5 " ..	20	The W. A. Freeman, Ltd., Hamilton.	No Registration No. on the Bags.	(157)
" 12	Phosphate and Potash.	45044	Clayton Field, Niagara on the Lake.	4 " ..	15	Buffalo Fertilizer Co., Buffalo.	.....	51
" 12	Crockers wheat and Corn Fertilizer..	45045	C. E. Fisher & Sons Queenstown.	4 " ..	15	Am. Agr. Chem. Co., Buffalo.	.....	195
" 13	Celery and Potato Special.	45046	J. F. Galbraith, Stoney Creek.	4 " ..	15	Buffalo Fertilizer Co., Buffalo.	.....	57
" 13	Berry Harab Animal Fertilizer.	45047	Jno. G. White, Winona.	4 " ..	15	The Harris Abattoir Co., Ltd., Toronto.	.....	289

SESSIONAL PAPER No. 14

—BULLETIN No. 213.

Analysis of Sample.	RESULTS OF ANALYSIS.									No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Nitrogen, p.c.		Phosphoric Acid, p.c.					Potash.	Moisture.		
	Total, including that of nitric acid or ammonia if present.	Total calculated as ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total available.				
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		

JAS. HOGAN, INSPECTOR.

As guaranteed....	2.06	2.50	6	2	1	9	8	1.5	.....	44292	Up to assumed guarantee
As found.....	1.93	2.34	7.17	1.71	2.27	11.15	8.88	2.43	.....	.....
As guaranteed....	1.65	2	6	2	1	9	8	10	.....	44293	" "
As found.....	1.52	1.90	6.98	1.42	1.50	9.90	8.40	9.67	.....	.....
As guaranteed....	1.65	2	6	2	1	9	8	10	.....	44294	Apparently not registered.
As found.....	3.54	4.30	8.10	3.70	0.60	12.40	11.80	7.76	.....	.....
As guaranteed....	1.65	2	5.5	3.5	0.25	9.25	9	6	8	44295	Up to assumed guarantee
As found.....	2.71	3.28	3.25	5.85	1.85	10.95	9.10	9.63	.....	.....
As guaranteed....	2.47	3	5	3	0.25	8.25	8	5	8	44296	" "
As found.....	3.08	3.74	3.00	5.25	3.05	11.30	8.25	7.30	.....	.....
As guaranteed....	2.89	3.5	5	3	0.25	8.25	8	3	8	44297	" "
As found.....	3.09	3.75	0.90	5.65	4.25	10.80	6.55	3.74	.....	.....
As guaranteed....	2.47	3	5.5	3.5	0.25	9.25	9	4	8	44298	" "
As found.....	2.71	3.30	7.12	0.48	1.60	9.20	7.60	7.26	.....	.....

H. J. DAGER, INSPECTOR.

As guaranteed....	1.65	2	6	2	1	9	8	10	.....	45037	Up to guarantee.
As found..	1.51	1.84	6.77	2.78	0.70	10.25	9.55	11.5	.....	.....
As guaranteed.. ..	2.06	2.5	6	2	1	9	8	1.5	.....	45038	Below guarantee in phosphoric acid.
As found	1.23	1.50	4.32	1.78	1.12	7.22	6.10	5.00	.....	.....
As guaranteed....	0.80	1	6	2	1	9	8	5	.....	45039	Up to guarantee.
As found..	0.91	1.10	4.52	3.48	1.00	9.00	8.00	5.38	.....	.....
As guaranteed....	1.60	2	6	2	1	9	8	10	.....	45040	Below guarantee in phosphoric acid.
As found.....	1.85	2.24	5.20	.....	2.20	7.28	5.08	10.42	.....	.....
As guaranteed....	2.06	2.5	6	2	1	9	8	1.5	.....	45041	Up to guarantee.
As found.....	1.96	2.38	6.00	2.35	2.00	10.35	8.35	2.06	.....	.....
As guaranteed....	6.59	8	.....	.....	.....	13	.....	.....	.....	45042	"
As found.....	6.86	8.33	.....	.....	.....	14.25	.....	.....	.....	.....
As guaranteed....	2.47	3	5.5	3.5	0.25	9.25	9	4	8	45043	Up to assumed guarantee.
As found.....	2.19	2.66	7.82	3.08	0.67	11.57	10.90	4.40	.....	.....
As guaranteed....	.....	.....	10	2	1	13	12	5	.....	45044	Slightly below guarantee in potash.
As found.....	.....	.....	7.12	4.53	2.00	13.65	11.65	4.33	.....	.....
As guaranteed....	2.06	2.5	6	2	1	9	8	1.5	.....	45045	Up to guarantee.
As found.....	1.77	2.14	6.07	3.51	1.47	11.05	9.58	2.37	.....	.....
As guaranteed....	1.6	2	6	2	1	9	8	10	.....	45046	Below guarantee in potash.
As found.....	1.54	1.75	5.87	2.61	1.27	9.75	8.48	5.60	.....	.....
As guaranteed....	2.5	3	.....	.....	.....	10	7	6.5	.....	45047	"
As found.....	2.74	3.33	.....	.....	2.37	10.10	7.73	5.25	.....	.....

2 GEORGE V., A. 1912
FERTILIZERS AS SOLD.

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report.	Registered Number.
1910.								
DISTRICT OF TORONTO—								
May 13	Sure growth manure.	45048	Manufacturer.....	4 lbs.	15	The W. A. Freeman Co., Ltd., Hamilton.		144
" 17	Early Vegetable Manure.	45049	Manufacturer.....	4 "	15	The Wm. Davies Co., Ltd., Toronto.		247
" 17	Bradleys Complete Manure for Potatoes and Vegetables.	45050	Jno. Cunnigham, Cooksvile.	4 "	15	Am. Agr. Chem. Co., Buffalo.		191
" 17	Potato manure.	45051	J. E. Bell, Cooksvile.	4 "	15	The W. A. Freeman Co., Ltd., Hamilton.	No Registration No. on Bags.	(145)
" 18	Pure Animal Fertilizer, Brand H.	45052	J. A. Simmers, 147, 151, King, St. E. Toronto.	5 "	25	Wm. Harris & Co., Danforth Ave., Toronto.		285
" 23	Potato 'Harab' Animal Fertilizer.	45053	J. N. McGregor, Oakville.	5 "	15	The Harris Abattoir Co., Ltd., Toronto.		286
" 23	High Grade Potash Compound.	45054	R. A. Balty, Oakville.	5 "	15	The Am. Agr. Chem. Co., New York.	No Registration No. on package.	(182)
" 25	Crockers New York Special Phosphate.	45055	Titterington, Bros., St. Catharines.	5 "	15	"		192
" 25	Davies Early Vegetable Manure.	45056	The St. Catharines Cold Storage Co., St. Catharines.	5 "	15	Wm. Davies Co., Ltd., Toronto.		247
DISTRICT OF LONDON—								
May 4	Pure Animal Fertilizer Brand H.	42301	Jno. Byers, Stratford.	3 jars.	15	W. Harris Co., Toronto.	No Registration No. on package.	(285)
" 6	Sure Growth Manure.	42311	Richard G. Seldon, Exeter.	3 " ..	15	Freeman Fertilizer Co., Hamilton.		144
" 7	Bone Meal.....	42314	D. W. Newcombe, St. Thomas.	3 " ..	15	W. A. Freeman Co., Hamilton.		146
" 7	Fertilizer	42315	" " ..	3 " ..	15	" " ..	No Registration No. or no Analysis on Bag.	?
" 13	Homestead Bone Black.	42316	Thos. Benstead, Strathroy.	3 " ..	15	Am. Agr. Chem. Co., Detroit.		(213)
" 13	Homestead High Grade Garden and Vegetable Fertilizer.	42317	" " ..	3 " ..	15	" " ..		(210)
" 3	Rex Brand.....	42599	O. H. Killer, Stratford.	3 " ..	15	Rex Manfg. Co., Weston, Ont.		12

SESSIONAL PAPER No. 14

—BULLETIN No. 213.

Analysis of Sample.	RESULTS OF ANALYSIS.										Remarks and opinion of the Chief Analyst.	
	Nitrogen, p.c.		Phosphoric Acid, p.c.						Potash.	Moisture.		No. of Sample.
	Total, including that of nitric acid or ammonia if presnt.	Total calculated as ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total available.					
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.			

H. J. DAGER, INSPECTOR—*Concluded.*

As guaranteed....	2.89	3.5	5	3	0.25	8.25	8	3	8	45048	Up to guarantee
As found.	3.32	4.03	.....	.....	2.37	11.45	9.08	6.60	.....	.....
As guaranteed....	4.12	5	.....	.....	.....	11	9	5	.....	45049	"
As found.	4.03	4.90	.....	.....	0.92	13.00	12.08	4.84	.....	.....
As guaranteed....	3.29	4	6	2	1	9	8	7	.....	45050	"
As found.	2.91	3.54	6.92	2.18	0.92	10.02	9.10	7.30	.....	.....
As guaranteed....	2.47	3	5	3	0.25	8.25	8	5	8	45051	Up to assumed guarantee.
As found.	3.20	3.88	3.62	5.33	1.82	10.77	8.95	6.02	.....	.....
As guaranteed....	7.15	8.69	0.67	3.9	2.74	7.31	4.57	.....	10.91	45052	Below guarantee in nitrogen.
As found.	6.30	7.60	0.70	4.28	2.32	7.30	4.98	.....	.....	.....
As guaranteed....	4	4.9	.....	.....	.....	11	8	8	.....	45053	Up to guarantee.
As found.	5.72	6.95	.....	.....	.....	11.00	.....	8.28	.....	.....
As guaranteed....	1.65	2	6	2	1	9	8	10	.....	45054	Up to assumed guarantee.
As found.	1.96	2.38	6.90	2.45	1.42	10.77	9.35	11.76	.....	.....
As guaranteed....	.....	.....	8	2	1	11	10	8	.....	45055	Up to guarantee.
As found. ....	.....	.....	8.00	4.68	1.12	13.80	12.68	7.91	.....	.....
As guaranteed ..	4.12	5	.....	.....	.....	11	9	5	.....	45056	Up to guarantee.
As found.	3.68	4.47	.....	.....	4.00	14.45	10.45	4.48	.....	.....

J. TALBOT, ACTING INSPECTOR.

As guaranteed....	7.15	8.69	0.67	3.9	2.74	7.31	4.57	.....	10.91	42301	Up to assumed guarantee
As found.	7.54	9.16	0.75	6.40	1.65	8.80	7.15	.....	.....	.....
As guaranteed....	2.89	3.5	5	3	0.25	8.25	8	3	8	42311	Up to guarantee.
As found.	3.02	3.67	4.72	5.78	1.75	12.25	10.50	5.77	.....	.....
As guaranteed....	2.47	3	.....	20	1	21	20	.....	9	42314	Essentially up to guarantee.
As found.	3.92	4.75	.....	14.75	6.25	21.00	14.75	.....	.....	.....
As guaranteed....	.....	.....	.....	.....	.....	.....	.....	.....	.....	42315	Apparently not registered.
As found. ....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
As guaranteed....	2.06	2.5	6	2	1	9	8	1.5	.....	42316	Up to assumed guarantee
As found.	2.24	2.72	.....	8.20	0.70	9.90	8.20	1.93	.....	.....
As guaranteed....	1.65	2	6	2	1	10	8	5	.....	42317	" "
As found.	1.61	1.95	.....	9.35	0.65	10.00	9.35	4.96	.....	.....
As guaranteed....	1.97	2.4	3	1	1	5	4	4	.....	42599	Up to guarantee.
As found.	3.63	4.40	4.78	2.80	1.12	8.70	7.58	4.77	.....	.....

2 GEORGE V., A. 1912
FERTILIZERS AS SOLD

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report.	Registered Number.
1910.								

DISTRICT OF WINDSOR—

April 20	Bone and Potash..	42567	Struthers & Church, Galt.	3 jars.	10	Buffalo Fertilizer Co.	Brand on Bag No. 4352.	(51)
" 20	Celery and Potato Special.	42568	" " ..	3 " ..	10	" " ..	.....	(57)
" 21	Fertilizer.....	42575	Geo. Kirk, Woodstock.	3 " ..	10	W. A. Freeman Co., Hamilton.	No. Registration No. on Bags.	(157)
" 21	"	42576	Hastings & Son, Woodstock.	3 " ..	20	" " ..	.....	145
" 22	Sure Growth.....	42579	A. H. Hamilton, London South.	3 " ..	20	" " ..	.....	144
" 22	Celery and Vegetable Manure.	42581	" " ..	3 " ..	20	" " ..	.....	148

DISTRICT OF VANCOUVER—

Mai 7	Fertilizer 'B'	44860	The Brackman, Ker Milling Co., Vancouver.	6 lbs.	15	Victoria Chem. Co. Ltd., Victoria, B.C.	Sample was taken from bin in warehouse of vendor.	(74)
" 7	Bone Meal	44861	Manufacturers, Vancouver, B.C.	"	15	The Brackman, Ker Milling Co., Victoria, B.C.	"	?
" 7	Nitrate of Soda...	44862	The Brackman, Ker Milling Co., Vancouver, B.C.	"	20	The Victoria Chem. Co., Ltd., Victoria, B.C.	"	(27)
" 7	Muriate of Potash	44863	"	"	20	"	"	(78)
" 7	Sulphate of Potash	44864	"	"	15	"	"	(79)
" 7	Fertilizer 'C'	44865	Wm. Rennie & Co., Vancouver, B.C.	"	35	"	"	(75)
" 7	Rennies Plant Food.	44866	"	3 pkgs	75	W. Rennie, Toronto	.....	(276)
" 7	Fertilizer 'A' ...	44867	Royal Nurseries & Floral Co., Vancouver.	6 lbs.	25	The Brackman, Ker Milling Co., Vancouver, B.C.	.....	?
" 7	Bone Meal.....	44868	"	"	25	"	.....	?
" 7	"	44869	M. J. Henry, Vancouver, B.C.	"	25	The Chas. H. Lilly Co., Seattle, Wash.	.....	(297)

SESSIONAL PAPER No. 14

—BULLETIN No. 213.

Analysis of Sample.	RESULTS OF ANALYSIS.									No. of Sample.	Remarks and Opinion of the Chief Analyst.	
	Nitrogen, p.c.		Phosphoric Acid, p.c.						Potash.			Moisture.
	Total, including that of nitric acid or ammonia if present.	Total calculated as ammonia.	Soluble in Water.	Reverted or Ci- trate Soluble.	Insoluble.	Total.	Total available.					
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				

JNO. TALBOT, INSPECTOR.

As guaranteed	10	2	1	13	12	5	42567	Doubtful identification.
As found	.....	.....	.....	.....	.....	11.20	.....	3.34	.....	.....
As guaranteed	1.64	2	6	2	1	9	8	10	42568	" "
As found	1.61	1.95	.....	.....	.....	10.70	.....	6.85	.....	.....
As guaranteed	3	9	4	42575	" "
As found	1.44	1.75	.....	.....	.....	12.65	.....	3.47	.....	.....
As guaranteed	2.47	3	5	3	0.25	8.25	8	3	8	42576	Up to guarantee.
As found	2.82	3.42	4.10	5.60	1.95	11.65	9.70	6.95	.....	.....
As guaranteed	2.89	3.5	5	3	0.25	8.25	8	3	8	42579	
As found	2.90	3.52	5.35	5.33	1.02	11.70	10.68	4.51	.....	.....
As guaranteed	4.12	5	5.5	3.5	0.25	.....	.....	.....	.....	42581
As found	4.21	5.12	4.50	5.78	1.87	12.15	10.28	.....	.....	.....

D. O'SULLIVAN, ACTING INSPECTOR.

As guaranteed	3.5	.....	10	.....	.....	.....	.....	11	.....	44860	Doubtful identification.
As found	2.06	2.53	12.40	.....	.....	14.40	.....	7.01	.....	.....
As guaranteed	.....	.....	.....	.....	.....	.....	.....	.....	.....	44861	Apparently not registered.
As found	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
As guaranteed	15	.....	.....	.....	.....	.....	.....	.....	.....	44862	Up to assumed guarantee.
As found	15.08	18.32	.....	.....	.....	.....	.....	.....	.....	.....
As guaranteed	.....	.....	.....	.....	.....	.....	.....	50	.....	44863	Samples mixed by inspector.
As found	.....	.....	.....	.....	.....	.....	.....	49.53	.....	.....
As guaranteed	.....	.....	.....	.....	.....	.....	.....	50	.....	44864	Up to assumed guarantee.
As found	.....	.....	.....	.....	.....	.....	.....	49.48	.....	.....
As guaranteed	.....	.....	12.5	.....	.....	.....	.....	11	.....	44865	Doubtful identification.
As found	.....	.....	14.20	.....	.....	16.20	.....	4.59	.....	.....
As guaranteed	.....	2.5	8	.....	.....	.....	.....	2	.....	44866	" "
As found	.....	.....	11.80	.....	.....	12.30	.....	5.37	.....	.....
As guaranteed	.....	.....	.....	.....	.....	.....	.....	.....	.....	44867	Apparently not registered.
As found	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
As guaranteed	.....	.....	.....	.....	.....	.....	.....	.....	.....	44868	" "
As found	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
As guaranteed	3	.....	.....	17	5	22	.....	.....	.....	44869	Up to assumed guarantee.
As found	3.75	4.55	.....	11.88	12.32	24.20	11.88	.....	.....	.....

2 GEORGE V., A. 1912
FERTILIZERS AS SOLD

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cents.	Name and Address of Manufacturer or Furnisher, as given by the Vendor.	Inspector's Report.	Registered Number.
1910								

DISTRICT OF VICTORIA—

April 27	'A' Grade . . .	37926	G. Bazett, Duncan, B.C.	6 lbs.	60	Victoria Chem. Co. Victoria, B.C.	Tags torn, could not see if registered.	(73)
" 27	"	37927	"	"	60	"	"	(73)
" 30	Fertilizer	37928	Jay & Co., Victoria, B.C.	"	25	Unknown	Imported, not regis'trd	?
" 30	Whale Guano	37929	Brackman, Ker, Victoria, B.C.	3 bots.	25	Pacific Whaling Co., Victoria, B.C.		?
" 30	'C' Grade	37930	Manufacturers	"	25	Victoria Chem. Co.		(75)
" 30	Superphosphate of Lime.	37931	"	"	25	"		(80)
" 30	Muriate of Potash	37932	"	"	25	"		(79)
" 30	Nitrate of Soda . . .	37933	"	"	25	"		(77)
" 30	Sulphate of Potash	37934	"	"	25	"		(78)
" 30	Kainit	37935	"	"	25	"		?

—BULLETIN No. 213.

J. F. POWER, ACTING INSPECTOR.

[illegible]

APPENDIX I.

BULLETIN 214—MAPLE SYRUP.

OTTAWA, August 12, 1910.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR,—I have the honour to present herewith a report upon 138 samples of Maple Syrup, collected during April and May of this year. Four samples were broken in transit. Of the remainder, 117 are found to meet the present standards for Maple Syrup, and are therefore declared genuine; although the close approximation to limit numbers (2 per cent lead precipitate, 0·5 per cent ash, and 0·4 per cent malic acid) would seem to indicate manipulation in many cases. Our experience acquired in the examination of many hundreds of samples goes to show that undoubtedly genuine Maple Syrup yields at least from 2·5 to 3·0 per cent lead acetate precipitate.

The present inspection shows 12 per cent adulteration. This is an improvement upon the former condition of the article, as evidenced by the subjoined statement, synopsis of Maple Syrup inspection since 1905.

MAPLE SYRUP.

Date of Inspection.	Bulletin.	Sold as Mixture.	Genuine.	Doubtful.	Adulter- ated.	Total.	Percent- age Genuine.
March, 1905.....	102	0	17	4	76	97	18
May, 1905.....	102	0	44	2	29	75	59
March, 1906.....	120	8	22	2	53	85	26
May, 1906.....	120	9	88	17	57	171	52
" 1907.....	141	37	187	2	20	244	77
February, 1908.....	155	6	61	4	13	84	73
May, 1908.....	157	3	62	0	6	71	87
" 1910.....	213	.....	117	4	17	138	85

Since 1905, the total number of Maple Syrup samples reported in Bulletin form is 965. Besides this number, many samples have been examined under Sec. 41 of the Adulteration Act (R. S. 1906, Chap. 133) and for research purposes. The experience thus gained, enables me, with great confidence, to recommend for legalization under Sec. 26, of the Act, the following limiting numbers for Maple Syrup :

Lead acetate precipitate 2·0 per cent ; total ash 0·5 per cent ; (both calculated upon the dry sugar content). Malic acid value 0·4 per cent.

SESSIONAL PAPER No. 14

It is certain that although many genuine samples of Syrup are of such a character as to admit of their dilution with Cane Sugar Syrup, and still fall within such limits as to pass for genuine, the great majority of fraudulent samples will be clearly indicated, while genuine Maple Syrup is quite safe from being adjudged as other than it is.

I beg to recommend the publication of this report as Bulletin 214.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,

Chief Analyst.

BULLETIN No. 214—MAPLE SYRUP.

Date of Collection.	Nature of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.			No. of Sample.	Remarks and Opinion of the Chief Analyst.		
						Quantity.	Cents.	Percentage on dry substance.				
											Lead Sub- acetate pre- cipitate.	Total Ash.	Malic acid value.
DISTRICT OF NOVA SCOTIA R. J. WAUGH, INSPECTOR.												
1910.												
April 19	Maple Syrup.	W. J. Hopgood & Son, 1 qt . 40 Halifax, N.S.		Geo. A. Smith, Springhill, N.S.				3.38			41956	Genuine.
" 19	"	J. L. Archibald & Son, 1 " . 40 Halifax, N.S.		Imperial Syrup Co., Mon- treal.	Snow Shoe brand. Labelled Pure.			2.43			41957	"
" 19	"	Larder Hubley & Co., 1 " . 40 Halifax, N.S.		A. W. Westover, Sutton Junction, P.Q.	Labelled Pure			3.53			41958	"
" 19	"	Dillon Bros., Halifax, 1 " . 40 N.S.		Maple Tree Producers Ass'n, Waterloo, P.Q.				3.44			41959	"
" 20	"	E. W. Crease & Son, 1 " . 35 Halifax, N.S.		J. McLellan, Halifax, N.S.	Sold as Cumberland Syrup.			5.00			41960	"
May 3	"	Rooney & Lovett, Hal- ifax, N.S.		Sugars & Cannons Ltd., Montreal.	'Silver Leaf' brand. Labelled Pure.			0.49	0.30	0.09	41961	Adulterated.
" 3	"	T. F. Courtney & Co., 1 " . 35 Halifax, N.S.		Unknown	Sold as Cumberland Syrup.			4.24			41962	Genuine.
" 3	"	W. E. Crowe & Co., Hal- ifax, N.S.		Maple Tree Producers Ass'n, Waterloo, P.Q.	Pride of Canada brand.			2.77			41963	"
" 5	"	S. Thomson, Dart- mouth, N.S.		Sugars & Cannons Ltée, Montreal.	'Silver Leaf' brand. Sold as Pure.			0.46	0.13	0.06	41964	Adulterated.
" 5	"	G. A. Orman, Dartmouth, 1 " . 40 N.S.		Maple Tree Producers Ass'n, Montreal.	Sold as Pure. Pride of Canada			3.41			41965	Genuine.
DISTRICT OF PRINCE EDWARD ISLAND—THEO. MOORE, INSPECTOR.												
19 avril	Maple Syrup.	Coffin & Co. Charlotte- town.	3 pts.	60	J. J. McKinnon, Char- lottetown.			2.98			38686	Genuine.

"	19	"	38687	Mrs. W. F. Carter, Charlottetown.	3	"	60	E. D. McKenzie, Springhill, N.-E.	.....	2.89	.....	.....	38687	"
"	21	"	38688	A. Bowness, Kensington.	3	"	50	F. T. Thomas, Québec....	.....	2.70	.....	.....	38688	"
"	22	"	38689	McGougan & Wright, Summerside.	3	"	50	Unknown.....	.....	2.98	.....	.....	38689	"
"	22	"	38690	Sinclair & Stewart, Summerside.	3	"	60	Dearborn & Co., St. John, N.-B.	.....	0.99	0.30	0.33	38690	Adulterated.
"	22	"	38691	Waugh & Steeves, Summerside.	3	"	60	Sugars & Cammers Ltée, Montréal.	.....	0.67	0.40	0.01	38691	"
"	22	"	38692	J. Bowden, Georgetown.	3	"	50	J. Dixon, Québec.....	.....	0.89	0.41	0.16	38692	"
"	22	"	38693	F. Peterson, Montague..	3	"	60	J. McPherson, Halifax....	.....	2.58	.....	.....	38693	Genuine.
"	22	"	38694	F. Peardon, Charlotte-town.	3	"	60	Sugars & Cammers Ltée, Montréal.	.....	2.37	.....	.....	38694	"
"	22	"	38695	J. McKinnon, Charlotte-town.	3	"	50	Robert Mitchell, Québec.	.....	3.13	.....	.....	38695	"

DISTRICT OF NEW BRUNSWICK J. C. FERGUSON, INSPECTOR.

April	23	Maple Syrup..	39689	James Collins, St. John, N.-B.	2	bots.	70	A. R. & R. P. Gorham, Gorham's Bluff, N.-B.	Labelled Puré Maple Honey.	.....	3.35	.....	39689	Genuine.
"	23	"	39690	J. E. Quinn, St. John, N.-B.	2	"	70	Wm. Shampier, Kingston, N.-B.	Labelled Pure Maple Syrup.	.....	2.61	.....	39690	"
"	25	"	39691	R. H. Cother, St. John, N.-B.	2	"	70	H. C. Cochrane, Bloomfield Station, N.-B.	Guaranteed Pure.	.....	4.09	.....	39691	"
May	5	"	45227	H. C. Jewett, Fredericton, N.-B.	2	"	60	J. H. Haines, Macin-quac, N.-B.	Lib. Pure Maple Honey	.....	3.07	.....	45227	"
"	18	"	45228	D. A. Vail, Sussex, N.-B.	1	qt..	40	D. F. Archibald, Athol, N.-E.	.....	.....	3.52	.....	45228	"
"	18	"	45229	Wills Eyeleigh, Ltd., Sussex, N.-B.	1	"	35	T. Whit-Colpitts, Forest Glen, N.-B.	.....	.....	3.75	.....	45229	"
"	19	"	45230	Barkers, Ltd., Moncton, N.-B.	1	"	38	Unknown.....	.....	.....	3.50	.....	45230	"
"	19	"	45231	D. E. Richard, Moncton, N.-B.	2	bots.	40	"	.....	.....	4.12	.....	45231	"
"	19	"	45232	Archie A. McLeod, Moncton, N.-B.	1	qt...	50	Mme M. Steeves, Lutes Mountain, N.-B.	.....	.....	2.00	.....	45232	"
"	19	"	45233	J. W. Steeves, Moncton, N.-B.	3	bots.	75	Goddard Bros., Elgin, N.-B.	.....	.....	2.62	.....	45233	"

BULLETIN No. 214—MAPLE SYRUP.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion,)	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.			Percentage on dry substance.	Lead Sub-acetate precipitate.	Total Ash.	Malic acid value.		

DISTRICT OF QUEBEC—E. BELAND, INSPECTOR.

1910.	April 23	Maple Syrup.	36568	D. Baribeau, Ste-Geneviève de Batiscan	1 qt...	25	Eugène Baptiste, St-Arnaud.	Vendor	3-41	...	...	36568	Genuine.
"	25	"	36569	J. Beaudoin, St-Stanislas.	1 " ..	25	"	"	6-95	...	...	36569	"
"	25	"	36570	F. Dessureau, St-Stanislas.	1 " ..	25	"	"	4-01	...	...	36570	"
"	25	"	36571	Alphonse Lafontaine, St-Stanislas.	1 " ..	25	Alphonse Laroche.	Vendor	6-40	...	...	36571	"
"	25	"	36572	Henrie Trépanier, St-Stanislas.	1 " ..	25	"	"	5-01	...	...	36572	"
"	25	"	36573	Joseph Trottier, St-Stanislas.	1 " ..	25	"	"	3-90	...	...	36573	"
"	26	"	36574	Pierre Caset, St-Prospère.	1 " ..	25	"	"	4-09	...	...	36574	"
"	26	"	36575	W. Pronovost, St-Prospère.	1 " ..	25	"	"	2-89	...	...	36575	"
"	26	"	36576	Jos. P. Massicotte, St-Prospère.	1 " ..	25	"	"	2-70	...	...	36576	"
"	26	"	36577	O. Trudel, St-Prospère.	1 " ..	25	"	"	3-28	...	...	36577	"

DISTRICT OF ST. HYACINTHE—J. J. COSTIGAN, ACTING INSPECTOR.

April 20	Maple Syrup.	40460	E. Goyette, Cowansville, P.Q.	1 qt..	35	F. Vignon, farmer	2-71	40460	Genuine.
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"	21	40461	Royer Fissette, Sherbrooke.	1 "	25	Unknown	3.29	40461	"
"	26	40462	Magasin Co-opératif, Thetford Mines.	1 "	30	"	3.50	40462	"
"	27	40463	A. L. Dupuis, Coaticook, P.Q.	1 "	25	"	.....	1.40	0.49	40463	Adulterated.
"	27	40464	S. W. Mallock, Coaticook, P.Q.	1 "	25	F. Birch, Hatley, P.Q.	.....	2.74	.....	40464	Genuine.
May	2	40465	Eastern Tp. M. S. and Sugar Exchange, Sutton, P.Q.	1 "	25	"	.....	3.57	.....	40465	"
"	2	40466	E. B. Greeley, Sutton, P.Q.	1 "	25	A. E. Greeley, Sutton, P.Q.	.....	3.41	.....	40466	"
"	3	40467	The Maple Tree Producers' Assoc., Ltd., Waterloo, P.Q.	3 bots.	45	"	Pride of Canada	3.41	.....	40467	"
"	3	40468	" "	1 qt.	30	"	Pride of Quebec	2.71	.....	40468	"
"	3	40469	Nelson, Mitchell & Co., Granby, P.Q.	1 tin.	55	A. L. Coburn, Granby, P.Q.	Warranted pure	2.71	.....	40469	"

DISTRICT OF MONTREAL—J. C. ROULEAU, ACTING INSPECTOR.

April	19	1137	J. W. Léger, Vaudreuil.	1 qt.	30	D. Marcot, Ile Perrault	.....	3.81	.....	1137	Genuine.
"	19	1138	Chevrier & frères, Rigaud.	1 "	25	P. Villeneuve, St. Ré- dempteur.	.....	3.26	.....	1138	"
"	20	1139	J. B. Dubeau, St. Ré- dempteur.	1 "	40	Unknown	.....	4.15	.....	1139	"
"	20	1140	J. R. Ménard, St. Justine.	1 gall.	90	O. Bérard, St. Justine	.....	2.89	.....	1140	"
"	21	1141	J. G. Léonard, Beauharnois.	1 qt.	30	Théodore Faubert, Wood- land.	.....	3.26	.....	1141	"
"	27	1142	Mde. H. Deslauriers, La- chine.	1 "	25	Mathew, Fortin & Monette, Montreal.	After purchase vendor said it was compound	0.26	0.14	1142	Adulterated. See Inspector's note.
"	27	1143	W. J. Falle, Westmount.	1 "	30	Unknown	.....	3.35	.....	1143	Genuine.
"	28	1144	F. H. McKough, Hemmingford.	1 gall.	80	H. Bourdeau. Hemmingford.	.....	3.57	.....	1144	"
May	6	1145	King Edward Grocery, Villeneuve, Montreal.	80 1 qt.	30	H. Perrault, St. Alexis.	.....	2.40	.....	1145	"
"	6	1146	S. Robinson, 77 East Marie Anne, Montreal.	1 "	28	Unknown	.....	0.44	0.15	1146	Adulterated.

BULLETIN No. 214—MAPLE SYRUP.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.			Lead Sub- acetate precipitate	Total Ash.	Percentage on dry Substance.	Malic acid value.		

DISTRICT OF OTTAWA—J. A. RICKY, INSPECTOR.

1910.												
April 26	Maple Syrup.	42983	W. West, Almonte.	1 qt.	25	Thos. James, Sr., Almonte					42983	Sample broken.
" 22	"	42984	Stewart Bros. Co., Renfrew.	1 "	25	Mrs. Astleford, Bellamy's			3.69		42984	Genuine.
" 22	"	42985	Michael Vice, Renfrew.	1 "	30	G. W. Buzzell, Abbotsford, P.Q.			2.40		42985	"
" 27	"	42986	E. Gougeon, Market Square, Ottawa.	1 "	30	J. B. Dubeau, St. Redempteur, P.Q.			3.78		42986	"
" 27	"	42987	Wall & Co., Market Square, Ottawa.	1 "	30	J. Moynour, Ltd., Ottawa			2.80		42987	"
" 27	"	42988	F. W. Forde, Bank St., Ottawa.	1 "	30	Unknown.			2.18		42988	"
" 28	"	42989	F. A. Scott & Son, Wellington St., Ottawa	1 "	30	Keddy & Kenny, Hemmingford, P.Q.					42989	Samples lost through breakage
" 28	"	42990	R. McGregor, Sparks St., Ottawa.	1 "	35	Anstiss Langdon, Ltd., Ottawa.			2.83		42990	Genuine.
" 28	"	42991	C. B. McLean, Bank St., Ottawa.	1 "	35	A. W. Westover, Sutton Junction.			2.80		42991	"

"	30	"	42992	P. D. Herbert, Ottawa.	1 " ..	25	Furnished by H. N. Bates & Sons, Ottawa, manufactured by Canadiana Maple Exchange, Ltd.	Small's Selected Maple Syrup. Sample Guaranteed not only pure, but of high grade.	1 22	0 40	0 17	42992	Adulterated.
April	15	Maple Syrup.	44257	Wm. Davis, Kingston.	1 qt ..	30	Geo. Burt, Elginburg, Ont.	.....	2 46	.....	.....	44257	Genuine.
"	15	"	44258	A. Glover, Kingston	1 " ..	30	.....	Pride of Canada	2 24	.....	.....	44258	"
"	15	"	44259	S. T. Kirk, Kingston.	1 " ..	30	W. J. Crothers, Kingston	.....	2 30	.....	.....	44259	"
"	15	"	44260	W. H. Medley, Kingston	1 " ..	30	Canada Maple Exchange.	Small's 'Maple Leaf' brand.	2 18	.....	.....	44260	"
"	15	"	44261	C. Saunders, Kingston.	1 " ..	30	Geo. Weber, Ardoch, Ont.	.....	2 49	.....	.....	44261	"
"	15	"	44262	J. Gilbert, Kingston	1 " ..	35	Canada Maple Exchange.	Small's 'Maple brand'	1 69	0 53	0 18	44262	Adulterated.
"	16	"	44263	W. Brown, Elginburg, Ont.	1 " ..	25	W. Brown, Elginburg.	.....	2 92	.....	.....	44263	Genuine.
"	16	"	44264	John Long, Elginburg, Ont.	1 " ..	25	John Long, Elginburg.	.....	3 26	.....	.....	44264	"
"	18	"	44265	Geo. Gibson, Kingston.	1 " ..	25	F. Stephens, Athens, Ont.	.....	2 03	.....	.....	44265	"
"	18	"	44266	J. Reddin, Kingston.	1 " ..	30	Geo. Burt, Elginburg, Ont.	.....	.....	.....	.....	44266	Sample lost through breakage

DISTRICT OF KINGSTON—JAS. HOGAN, INSPECTOR.

DISTRICT OF TORONTO—H. J. DAGER, INSPECTOR.

May	5	Maple Syrup.	45002	C. W. Vatiey, Bridgeburg.	1 qt ..	30	The McCormick Co., Ltd.	'Log Cabin' brand. Guaranteed absolutely pure.	2 52	.....	.....	45002	Genuine.
"	6	"	45003	Galbraith & Son, Dunnville.	1 " ..	30	Mrs. Robert Shepherd, Danville.	Sold as Pure Maple Syrup.	3 14	.....	.....	45003	"
"	9	"	45004	J. M. Stanley, 256 Church St., Toronto.	1 " ..	35	Imperial Syrup Co., Montreal.	'Snowshoe' brand. Pure Maple Syrup.	2 37	.....	.....	45004	"
"	10	"	45005	F. R. Hare, St. Catharines.	1 " ..	35	The Garrett Stafford Co., Sutton, P.Q.	Guaranteed pure maple Syrup.	2 74	.....	.....	45005	"
"	14	"	45006	Chas. Adams, 455 King St. E., Hamilton.	1 " ..	40	Eastern Townships Maple S. & S. Exchange, Sutton, P.Q.	Sold as Pure Maple syrup.	3 63	.....	.....	45006	"
"	14	"	45007	W. Kearns & Co., Burlington.	1 " ..	35	Unknown	"	0 35	0 08	0 04	45007	Adulterated.
"	19	"	45008	Cochenour, Martin & Co., Newmarket.	1 " ..	25	"	'Snowshoe' brand. Sold as Pure Maple Syrup.	2 00	.....	.....	45008	Genuine.

BULLETIN No. 214—MAPLE SYRUP.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and Opinion of the Chief Analyst.	
				Cost.	Quantity.		Cents.	Percentage on dry Substance.	Lead Sub-acetate precipitate	Total Ash.			Malic acid value.

DISTRICT OF TORONTO—H. J. DAGER, INSPECTOR—Concluded.

1910.								p. c.	p. c.	p. c.		
May 21	Maple Syrup..	45009	T. Dudgeon, 406 Queen St., West Toronto.	3 pts..	45	Canada Preserving Co., Hamilton.	Sold as Genuine Maple Syrup.	0.44	0.10	0.10	45009	Adulterated.
" 21	" ..	45010	M. McAuliff, 212 Queen St., West Toronto.	3 " ..	35	Sugars and Cannery, Ltd., Montreal.	'Silver Leaf' brand, guaranteed absolutely pure. Sold as Pure Maple Syrup.	0.79	0.20	0.05	45010	"

DISTRICT OF LONDON—J. TALBOT, ACTING INSPECTOR.

May 5	Maple Syrup..	42302	A. G. Ault, Seaforth....	3 bots.	15	Unknown .....	.....	0.18	0.06	0.08	42302	Adulterated.
" 5	" ..	42308	Sturdy & Co., Goderich..	1 qt ..	35	McCormick Mfg. Co., London.	'Log Cabin' brand, guaranteed absolutely pure.	2.70	.....	.....	42308	Genuine.
" 6	" ..	42312	Jones & Hay, Exeter....	1 " ..	25	Unknown .....	.....	5.78	.....	.....	42312	"
" 3	" ..	42582	W.R. Butcher, St. Mary's	1 " ..	40	Garrett, Stafford & Co., Sutton, P.Q.	Guaranteed pure.	3.32	.....	.....	42582	"
" 3	" ..	42584	Pickard & Fleming, St. Mary's.	1 " ..	45	Alex. Mountain, Avonbank, Ont.	.....	3.41	.....	.....	42584	"
" 3	" ..	42587	A. Beattie & Co., St. Mary's.	1 " ..	30	Eastern Townships M. S. and S. Exchange.	.....	2.71	.....	.....	42587	"
" 4	" ..	42591	Walsh Bros., Stratford..	1 " ..	35	Maple Tree Producers Association, Waterloo, P.Q.	Pride of Canada, guaranteed pure.	2.13	.....	.....	42591	"
" 4	" ..	42593	A. Beattie & Co., Stratford.	1 " ..	40	" ..	Pride of Canada	2.37	...	.....	42593	"

DISTRICT OF WINDSOR—J. TALBOT, INSPECTOR.

April 18	Maple Syrup.	42545	Hood Bros., Guelph.....	40	Unknown.....	.....	.....	4·61	.....	42545	Genuine.
" 18	"	42547	Benson Bros., Guelph...	35	H. E. Reynolds, South Rockton, P.Q.	.....	.....	2·15	.....	42547	"
" 18	"	42548	E. Englehart, Guelph....	35	Maple Tree Producers' As- sociation, Waterloo, P.Q.	.....	.....	2·37	.....	42548	"
" 18	"	42551	Johnston & Co., Guelph.	40	Unknown.....	.....	.....	3·23	.....	42551	"
" 19	"	42554	John Waldschmidt, Ber- lin.	25	W. C. Smith, Athens, Ont.	.....	.....	4·10	.....	42554	"
" 19	"	42557	H. J. Ahrens, Berlin....	35	M. J. Wilson & Son, Smith's Falls.	.....	.....	3·07	.....	42557	"
" 19	"	42558	Wm. Metcalfe & Co., Ber- lin.	35	G. B. Hall, Barnston, P.Q.	Guaranteed by manu- facturer to be Pure Maple Syrup.	.....	2·86	.....	42558	"
" 22	"	42577	Jas. Fortner, London South.	35	Frank Moore, London, Ont.	.....	.....	3·16	.....	42577	"
" 22	"	42578	Wm. W. Burdick, London South.	25	Unknown'.....	.....	.....	3·07	.....	42578	"

DISTRICT OF MANITOBA—A. C. LARIVIERE, INSPECTOR.

April 25	Maple Syrup.	43456	James Grant, Notre Dame Ave., Winnipeg.	40	Maple Tree Producers As- sociation, Waterloo, P.Q.	Pride of Quebec.....	.....	2·52	.....	43456	Genuine.
" 25	"	43457	Laurie Bros., Notre Dame Ave., Winnipeg.	40	Imperial Syrup Co., Mon- treal.	'Snowshoe', brand Pure Maple Syrup.	.....	2·21	.....	43457	"
" 25	"	43458	Dunn & Dodds, Notre Dame Ave., Winnipeg.	45	" " "	'Snowshoe' brand in bottles.	.....	2·10	.....	43458	"
" 25	"	43459	Horne & Thomson, Port- age Ave., Winnipeg.	40	Dingle & Stewart, Win- nipeg.	'Silver Leaf' brand, pure Maple Syrup (Guaranteed pure by Sugars & Cannery Ltd., Montreal)	.....	2·46	.....	43459	"
" 25	"	43460	H. E. Weldon & Co., Port- age Ave., Winnipeg.	45	Maple Tree Producers As- sociation, Waterloo, P.Q.	'Pride of Canada,'.....	.....	3·53	.....	43460	"
" 26	"	43461	Buchanan & Hardy, Osborne St., Winnipeg.	45	O. E. Sherwood, Foster, P.Q.	.....	.....	2·27	.....	43461	"
" 26	"	43462	J. Paterson, Market St., Winnipeg.	39	The Guaranteed Pure Maple Syrup Co., Sut- ton, P.Q.	.....	.....	3·35	.....	43462	"
" 27	"	43463	W. J. Young, Brandon..	40	Laying, Smith's Falls.....	.....	.....	2·18	.....	43463	"
" 27	"	43464	Muther & Lynch, Bran- don.	40	Canada Maple Exchange Ltd., Montreal.	Small's 'Maple Leaf' brand.	.....	2·46	.....	43464	"
" 27	"	43465	The Hudson Bay Co., Portage la Prairie.	50	The Eastern Tp. Maple Syrup & S. Exchange, Sutton, P.Q.	.....	.....	2·86	.....	43465	"

BULLETIN No. 214—MAPLE SYRUP.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report (Is not an expression of opinion).	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
				(Quantity.	Cents.			Percentage on dry Substance.	Lead Sub- acetate precipitate	Total Ash.	Malic acid value.		

DISTRICT OF CALGARY—R. W. FLETCHER, INSPECTOR.

1910.								p. c.	p. c.	p. c.	p. c.		
April 29	Maple Syrup.	43726	Copas & Emerson, Calgary.	1 qt.	50	Maple Tree Producers Assoc., Ltd., Waterloo, C.-B.	.....	2.61	.....	.....	..	43726	Genuine.
" 29	"	43727	Wood & Green, Calgary.	1 "	50	G. B. Hall, Barnston, C.-B.	.....	2.52	.....	.....	.....	43727	"
" 29	"	43728	Hudson's Bay Co., Calgary.	1 "	50	Maple Tree Producers Assoc., Ltd., Waterloo, P.Q.	.....	2.52	.....	.....	.....	43728	"
May 5	"	43729	R. Dum, Medicine Hat.	1 "	50	Imperial Syrup Co., Montreal.	.....	2.86	.....	.....	.....	43729	"
" 5	"	43730	Spencer & Todd, Medicine Hat.	1 "	50	Maple Tree Producers Assoc., Ltd., Waterloo, P.Q.	'Pride of Canada' brand.	2.80	.....	.....	.....	43730	"
" 12	"	43731	McDonald & Co., Lethbridge.	1 "	45	"	.....	.....	.....	.....	.....	43731	Sample lost through breakage
" 12	"	43732	Bentley & Co., Lethbridge.	1 "	50	Edmund J. Berry, Bronte, P.Q.	.....	3.07	.....	.....	.....	43732	Genuine.
" 18	"	43733	Hallier & Aldridge, Edmonton.	1 "	50	Maple Tree Producers Assoc., Ltd., Waterloo, P.Q.	.....	2.40	.....	.....	.....	43733	"
" 18	"	43734	C. Campbell & Co., Edmonton.	1 "	50	"	.....	2.49	.....	.....	.....	43734	"
" 18	"	43735	J. H. Morris & Co., Edmonton.	1 "	50	"	.....	2.70	.....	.....	.....	43735	"

DISTRICT OF VANCOUVER—D. O'SULLIVAN, ACTING INSPECTOR.

May	5	Maple Syrup.	44837	Thayer & Co., Vancouver, B.C.	1 qt..	50	Edmund J. Berry, Quebec	.....	1 42	0 50	0 37	44837	Adulterated.
"	5	"	44839	The A. & C. Grocery Co., Vancouver, B.C.	1 " ..	60	Maple Tree Producers Assoc., Montreal.	Pride of Canada	2 80	.....	.....	44839	Genuine.
"	5	"	44842	The London Grocery Co., Ltd., Vancouver, B.C.	1 " ..	50	Maple Tree Producers Assoc., Waterloo, P.Q.	"	3 35	.....	.....	44842	"
"	5	"	44845	T. F. McDowell, Vancouver, B.C.	1 " ..	50	T. N. Lynch, Granby, P.Q.	Canada's best pure maple syrup.	2 88	.....	.....	44845	"
"	5	"	44849	J. McTaggart, Vancouver, B.C.	1 " ..	70	F. N. Lynch, Granby, P.Q.	Sold as pure maple syrup.	2 77	.....	.....	44849	"
"	6	"	44853	J. S. Foran, Vancouver, B.C.	1 " ..	50	D. H. McDougall, Martin- town, P.Q.	Guaranteed pure	1 61	0 50	0 21	44853	Adulterated.
"	6	"	44856	" " "	1 " ..	45	Jas. St. Jacques, St. Her- mas, P.Q.	Guaranteed pure maple syrup.	2 80	.....	.....	44856	Genuine.
"	8	"	44879	T. S. Annandale, New Westminster.	1 " ..	50	Sugars & Cannery, Ltd., Montreal.	Silver Leaf brand pure maple syrup.	2 00	.....	.....	44879	"
"	8	"	44883	Hampton Bros	1 " ..	60	Eastern Townships and S. Exchange, Sutton, P.Q.	Guaranteed pure maple syrup.	3 01	.....	.....	44883	"

DISTRICT OF VICTORIA—J. F. POWER, ACTING INSPECTOR.

April	26	Maple Syrup.	37916	W. E. Morrison, Ladysmith, B.C.	1 qt..	50	Imperial Syrup Co., Montreal.	.....	1 20	0 41	0 16	37916	Adulterated.
"	27	"	37917	Cowichan Merchants, Duncan's, B.C.	1 gall.	75	Maple Tree Producers Assoc., Waterloo, P.Q.	.....	3 50	.....	.....	37917	Genuine.
May	2	"	37918	Windsor Grocery, Victoria, B.C.	1 qt..	50	R. J. Lynch, Granby, P.Q.	Genuine	3 17	.....	.....	37918	"

APPENDIX J.

BULLELIN No. 215—MAPLE SUGAR.

OTTAWA, September, 2, 1910.

WM. HIMSWORTH, Esq.,
Acting Deputy Minister of Inland Revenue.

SIR,—I beg to hand you a report upon maple sugar, collected throughout Canada in April and May of this year.

The report comprises one hundred and thirty-eight samples; but in addition the duplicates have been analysed in twenty-two instances, so that the total number of samples examined is one hundred and sixty (160). Examination of duplicates has been made when the sample, as taken by our Inspectors, consisted of separate cakes, instead of the division of a single cake into portions. It has sometimes occurred that, in the case of distinct cakes collected under the same inspectoral number, these cakes have given differing results on analysis. In the present instance, with a single exception, the analysis of the duplicate has corroborated the results of analysis of the original sample.

Results may be synoptically stated as follows:—

	Samples.
Genuine.....	102
Adulterated.....	22
Doubtful.....	14
Total.....	138

It thus appears that 74 per cent of the samples must be declared genuine, on the basis of our present standard for maple sugar, while 16 per cent are found to be adulterated.

The subjoined synopsis of published work on maple sugar since 1905, enables comparison to be made with former reports.

Date of Inspection.	Bulletin.	Sold as Mixture.	Genuine.	Doubtful.	Adul-terated.	Total.	Percent-age. Genuine.
March, 1905.....	102	0	12	2	8	22	55
May, 1905.....	102	0	15	0	3	18	83
March, 1906.....	120	0	11	3	12	26	42
May, 1906.....	120	1	44	0	7	52	85
May, 1907.....	140	5	185	10	57	257	72
May, 1908.....	157	0	62	1	8	71	87
Sept., 1910.....	215	0	102	14	22	138	74
						584	

It will be seen that all the samples now reported were purchased as maple sugar, not as compounds; although in several instances the vendor declined, after sale, to guarantee the purity of the article. Indeed, in one case (No. 1154) the vendor said the article was a compound, although the results of analysis prove it to be genuine, as judged by our accepted standards for maple sugar.

SESSIONAL PAPER No. 14

These standards require that the lead acetate precipitate shall not be less than 2 per cent of the weight of the dry sugar ; that the ash shall not be less than one half of one per cent, and the malic acid value not less than 0.4 per cent (Hortvet's methods)

Samples are judged as 'doubtful' when the lead precipitate is between 2 per cent and 1.8 per cent ; or reaching 2 per cent, when the ash falls below 0.5 per cent and the malic acid value below 0.4 per cent.

It will be seen that the average weight of the lead acetate precipitate as well as that of the ash, notably exceeds the standard numbers, and thus permits many samples to be reduced with sucrose from other sources than the maple, while still meeting the requirements of the standards. There can be little doubt that advantage has been taken of this fact by unscrupulous manufacturers, and that many compounded samples have escaped detection. Owing, however, to the fact that certain undoubtedly genuine maple sugars are found to give a low lead acetate number, and a low ash, it is not considered safe to recommend higher figures than those quoted, lest an honest product should be unfairly dealt with. This matter will receive careful consideration when readjustment of standards for sugar comes before the Advisory Board ; and it may be found possible to raise it slightly.

I beg to recommend publication of this report as Bulletin 215.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,
Chief Analyst.

BULLETIN No. 215—MAPLE SUGAR.

Date of Collection.	Nature of Sample.	No. Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.			No. of Sample.	Remarks and Opinion of the Chief Analyst.	
				Quantity.	Cents.			Percentage on dry substance.	Lead Sub-acetate precipitate.	Total Ash.			Malic Acid Value.

DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.

1910.							p. c.	p. c.	p. c.		
April 19	Maple Sugar.	41946	W. J. Hopgood & Son, Halifax, N.-E.	1 liv.	20	Geo. A. Smith, Springhill, N.-E.	3.73	.....	.....	41946	Genuine
" 19	"	41947	City Provision Co., Halifax, N.-E.	1 "	25	John Outhit, Halifax, N.-E.	3.48	.....	.....	41947	"
" 19	"	41948	Larder Hubley & Co., Halifax, N.-E.	1 "	20	J. R. Smith, Southampton N.-E.	4.42	.....	..	41948	"
" 20	"	41949	Share & Campbell, Halifax, N.-E.	1 "	20	J. McLellan, Halifax, N.-E.	4.17	.....	.....	41949	"
" 20	"	41950	Rooney & Lovett, Halifax, N.-E.	1 "	20	J. S. Bird, East Mapleton, N.-E.	3.64	.....	.....	41950	"
" 20	"	41951	Jas. Clancey, Halifax, N.-E.	1 "	20	Smith & Proctor, Halifax, N.-E.	5.91	.....	.....	41951	"
May 3	"	41952	R. B. Adams & Co., Halifax, N.-E.	1 "	20	R. Megeney, Halifax, N.-E.	3.88	.....	.....	41952	"
" 4	"	41953	Jas. McGregor, Halifax, N.-E.	1 "	11	Bauld Bros., Ltd., Halifax N.-E.	5.11	.....	.....	41953	"
" 4	"	41954	J. J. Skerry, Halifax, N.-E.	1 "	23	"	5.48	.....	.....	41954	"
" 11	"	41955	Murphy & DaMont, Halifax, N.-E.	1 "	15	D. A. Lavers, East Southampton, N.-E.	2.57	.....	.....	41955	"

DISTRICT OF PRINCE EDWARD ISLAND—THEO. MOORE, INSPECTOR.

April 19	Maple Sugar.	38696	R. K. Brace, Charlotte-town.	32	T. Thomas, Quebec	4.88	...	...	38696	Genuine.
" 19	"	38697	Mrs. W. F. Carter, Charlottetown.	48	E. D. McKenzie, Springhill, N.E.	4.77	...	...	38697	"
" 19	"	38698	Saunderson & Co., Charlottetown.	40	Allan Rogerson, Gamble's Corner, P.E.I.	2.28	...	...	38698	"
" 21	"	38699	A. Bowness, Kensington	32	F. T. Thomas, Quebec	2.77	...	...	38699	"
" 22	"	38700	R. T. Holman Ltd., Summerside.	20	Woodman & McKee, Coaticook, P.Q.	4.73	...	...	38700	"
" 22	"	38701	Brace & McKay, Summerside.	30	A. E. Hurd, Ayerscliff, P.Q.	4.22	...	...	38701	"
" 26	"	38702	Jas. Gainer, Mount Stewart.	40	G. Gorong, St. John	3.93	...	...	38702	"
" 28	"	38703	R. Nicholson, Charlottetown.	30	J. A. Farquharson, Charlottetown.	1.84	0.57	0.19	38703	Adulterated.
" 28	"	38704	J. McKinnon, Charlottetown.	30	Robert Mitchell, Quebec	*1.86	...	...	38704	Genuine.
" 28	"	38705	Coffin & Co., Charlottetown.	30	Sugars & Cannery, Ltd., Montreal.	1.36	0.38	0.10	38705	Adulterated.
						*1.44				

DISTRICT OF NEW BRUNSWICK—J. C. FERGUSON, INSPECTOR.

April 23	Maple Sugar.	39692	James Collins, St. John, N.B.	45	Goddard Bros., Elgin, N.B.	3.64	Vendor does not guarantee quality or purity.	...	39692	Genuine.
" 25	"	39693	W. A. Porter, St. John, N.B.	40	Hanford H. Geldart, Elgin, N.B.	3.48	Guaranteed absolutely pure.	...	39693	"
" 25	"	39694	Harry G. McBeath, St. John, N.B.	48	Slocum & Ferris, Elgin, N.B.	3.63	...	...	39694	"
May 5	"	45234	E. G. Hoban, Fredericton, N.B.	50	Goddard Bros., Elgin, N.B.	2.88	Labelled, Pure Maple Sugar.	...	45234	"
" 5	"	45235	Halt Morrison & Co., Fredericton, N.B.	32	Alfred Brown & Sons, Bear Island, N.B.	4.48	Rock Maple Sugar.	...	45235	"
" 6	"	45236	C. H. Burt, Fredericton, N.B.	50	W. Leigh Burt, Zealand Station, N.B.	4.75	Maple Cakes.	...	45236	"
" 10	"	45237	Frank Godren, Falls, N.B.	50	Fred Conron, Drummond Parish, N.B.	4.91	...	...	45237	"
" 11	"	45238	Peter Lagacy, Falls, N.B.	35	Joseph Caron, Irishtown, N.B.	5.64	...	...	45238	"
" 18	"	45239	Mills Eveleigh Ltd., Sussex, N.B.	40	T. Whit. Colpitts, Forest Glen, N.B.	4.40	...	...	45239	"
" 19	"	45240	J. N. Boudreau, Moncton, N.B.	35	Napoleon Geranier, Marbleton, N.B.	3.51	Vendor would not guarantee purity.	...	45240	"

* Duplicate.

DISTRICT OF ST. HYACINTHE—J. J. COSTIGAN, ACTING INSPECTOR.

April 23	Maple Sugar.	40448	G. Dupuis, St. John, P. Q.	2 cakes	27	A. Brodeur, St-Paul, P. Q.	.....	3.24	.....	40448	Genuine.
" 23	"	40449	" " "	1 " "	24	A. Menard, St-Paul, P. Q.	.....	3.33	.....	40449	"
" 20	"	40470	E. Goyette, Cowansville, P. Q.	2 lbs..	20	A. Johnson, Iron Hill.	.....	2.53	.....	40470	"
" 21	"	40471	L. H. Olivier, Sherbrooke	2 " "	26	Unknown.	.....	3.66	.....	40471	"
" 25	"	40472	Ginn & Elliott, Richmond, P. Q.	1 cake	25	J. Duolos, Richmond, P. Q.	.....	3.86	.....	40472	"
" 25	"	40473	H. P. Wales, Richmond, P. Q.	2 lbs..	16	Unknown.	.....	4.22	.....	40473	"
" 25	"	40474	MacRae Bros., Richmond, P. Q.	1 cake	23	Mrs. Lynn, Flodden, P. Q.	.....	4.64	.....	40474	"
" 26	"	40475	Magasin Co., operatif Thetford Mines	2½ lbs.	27	Unknown.	.....	6.00	.....	40475	"
" 27	"	40476	D. L. Dupuis, Coaticook, P. Q.	2 " "	20	Eugene Inkle, Way's Mills P. Q.	.....	3.06	.....	40476	"
May 2	"	40477	Eastern Tnshps. S. Exchange, Sutton, P. Q.	2 " "	20	Chester Wilson, East Hill P. Q.	.....	3.95	.....	40477	"

DISTRICT OF MONTREAL—J. C. ROULEAU, ACTING INSPECTOR.

April 19	Maple Sugar.	1148	H. Montpetit, St. Anne de Bellevue.	2 lbs.	25	Unknown.	.....	2.02	0.55	0.28	1148	Doubtful.
" 19	"	1149	C. Decoste, Rigaud.....	4 " "	39	F. Sabourin, St. Redempteur.	.....	4.95	.....	.....	1149	Genuine.
" 20	"	1150	J. B. Dubeau, St. Redempteur.	6 " "	60	Moïse Vallée, St. Redempteur.	.....	3.73	..	..	1150	"
" 20	"	1151	J. E. P. Deguire, St. Justine.	3½ " "	33	Unknown	.....	3.20	.....	.....	1151	"
" 20	"	1152	D. Mesnard, St. Justine Station.	3½ " "	35	Mde. Beriault, St. Justine Station.	.....	4.02	.....	..	1152	"
" 21	"	1153	J. A. N. Bourassa, Valley field.	4½ " "	43	Mr. Laberge, Dowittville.	.....	4.11	.....	.....	1153	"
" 21	"	1154	O. Marchand, Beauharnois.	2 " "	24	Unknown	After purchase Vendot started it was compound	4.55	.....	.....	1154	"
" 27	"	1155	Wm. Biltcliffe, Westmount.	2 " "	24	W. D. Bradford, Granby.	.....	3.40	.....	.....	1155	"
May 6	"	1156	O. Champagne, 633 Notre Dame E., Montreal.	2½ " "	30	Unknown	.....	3.37	.....	.....	1156	"
" 6	"	1157	C. Rollin 1437 Ste-Catherine E., Montreal.	2 " "	25	Gunn, Langlois & Co., Montreal.	.....	4.55	.....	.....	1157	"

BULLETIN No. 215—MAPLE SUGAR.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (If not an expression of opinion.)	RESULTS OF ANALYSIS.			No. of Sample.	Remarks and Opinion of the Chief Analyst.	
				Quantity.	Cents.			Percent age on dry substance	Lead Sub-acetate precipitate.	Total Ash.			Malic Acid Value.

DISTRICT OF OTTAWA—J. A. RICEY, INSPECTOR.

1910.							p. c.	p. c.	p. c.		
April 20	Maple Sugar...	42973	G. F. Cook, Almonte...	2 lbs.	25	Vendor...	1.18	0.41	0.18	42973	Adulterated.
" 20	"	42974	H. H. Cole, Almonte...	2 "	30	Mrs. McKirdy, Almonte...	5.73	.....	.....	42974	Genuine.
" 22	"	42975	Mackay Bros., Renfrew...	2 "	22	W. M. Smith, Harlem, Ont.	2.88	.....	.....	42975	"
" 27	"	42976	P. Brankin, Market Sq., Ottawa.	3 cakes	30	Ottawa Cold Storage, Ottawa.	1.88	0.61	0.45	42976	Adulterated.
" 27	"	42977	E. Gougeon, Market Sq., Ottawa.	1 "	10	Lerner & Son, Ottawa...	*1.58	0.44	.....	42977	"
" 27	"	42978	J. Bambrick, George St., Ottawa.	2 lbs.	30	J. D. McGregor, Ottawa...	2.80	.....	.....	42978	Genuine.
" 27	"	42979	W. B. Graham, Bank St., Ottawa.	2 "	30	Wm. Cullen, Ottawa...	4.33	.....	.....	42979	"
" 27	"	42980	Calderone & Bossio, Bank St., Ottawa.	2 "	30	Westover, Sutton Junction	3.03	0.66	.....	42980	"
" 28	"	42981	F. A. Scott & Son, Wellington St., Ottawa.	2 "	30	Wm. Cullen, Ottawa...	4.44	.....	.....	42981	"
" 29	"	42982	A. Parkinson & Son, Kemptville.	3 cakes	30	Sugars & Cannery, Ltd., Montreal...	1.34	0.44	0.19	42982	Adulterated.
							*1.58	.....	.....

DISTRICT OF KINGSTON—JAS. HOGAN, INSPECTOR.

April 15	Maple Sugar.	44267	Kelly Bros., Kingston...	3cakes	30	Sugars & Cannery Ltd., Montreal...	2.13	0.53	0.58	44267	Genuine.
"	"	44268	W. J. Nesbit, Kingston..	3 "	30	James Craig, Kingston...	1.96	0.53	0.15	44268	Doubtful.
"	"	44269	C. A. Plecker, Kingston	3 "	30	Geo. Robertson & Son, Montreal.	*1.95	.....	.....	44269	Genuine.
"	"	44270	Geo. Boyle, Belleville...	3 "	30	Imperial Syrup Co., Mon- treal.	1.68	0.38	0.12	44270	Adulterated.
"	"	44271	J. H. Young, Belleville..	3 "	30	J. Sloan, Belleville.....	1.52	0.48	0.13	44271	"
"	"	44272	Beverly McDonald, 2 lbs.. Picton.	2 lbs..	30	Unknown	*1.91	.....	.....	44272	Doubtful.
"	"	44273	T. R. Harvey, Cobourg..	2 "	30	Simcon Adams, Danville, P.Q.	1.79	0.67	0.19	44273	"
"	"	44274	E. Guillet, Cobourg,....	2 "	40	Gunn, Toronto.....	2.71	.....	.....	44274	Genuine.
"	"	44275	J. Sutherland, Peterboro	3cakes	30	T. Kinnear Co., Peterboro	1.85	0.53	0.10	44275	Adulterated.
"	"	44276	P. S. White, Peterboro..	2 lbs..	30	W. J. Oke, Peterboro.....	*1.71	.....	.....	44276	Genuine.

DISTRICT OF TORONTO—H. J. DAGER, INSPECTOR.

May	5 Maple Sugar..	45012	S. H. Griffith, Welland..	1 cake	10	Sugars, Ltd., Quebec...	2.04	0.51	0.20	45012	Doubtful.
"	7 "	45013	Wolfe & Mosler, Port Colborne.	1 "	10	Imperial Syrup Co., Mont- real.	0.91	0.46	0.07	45013	Adulterated.
"	9 "	45014	J. Allen, 353 Yonge St., Toronto.	1 lb..	15	Unknown	0.91	0.46	0.07	45014	"
"	10 "	45015	G. B. Draker, St. Cath- arines.	1 cake	10	John Ross, St. Catharines	2.33	.....	.....	45015	Genuine.
"	11 "	45017	F. H. Taylor, Niagara Falls.	2cakes	20	Imperial Syrup Co., Mont- real.	0.64	0.28	0.09	45017	Adulterated.
"	14 "	45018	H. S. Hooper, 241 King St. East, Hamilton.	1 cake	10	White & Co., Hamilton..	2.11	0.60	0.16	45018	Doubtful
"	16 "	45019	J. Blood, 419 Yonge St., Toronto.	1 lb.	15	J. Weston, 630 Ontario St., Toronto.	3.08	.....	.....	45019	Genuine.
"	16 "	45020	W. I. Wellwood, 161 Yonge St., Toronto.	1 cake	20	Mr. Thompson, cor. Church & Front Sts., Toronto.	6.11	.....	.....	45020	"
"	16 "	45021	Robert Kindley, 701 Queen St. East, Toronto	1 "	10	Imperial Syrup Co., Mont- real.	1.06	0.38	0.10	45021	Adulterated.
"	11 "	45011	Jas. Whimster & Co., Aurora.	1 lb.	11	J. Thompson, Athens...	3.53	.....	.....	45011	Genuine.

* Duplicate.

BULLETIN No. 215—MAPLE SUGAR.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.			Percentage on dry substance.	Lead Sub-acetate precipitate.	Total Ash.	Malic Acid Value.		

DISTRICT OF LONDON—J. TALBOT, ACTING INSPECTOR.

1910.									p. c.	p. c.	p. c.		
May	5	Maple Sugar..	42303	W. R. Smith, Seaforth..	3 bars.	30	A. M. Smith & Co., Lon- don.	Twin Blocks pure maple sugar.	1.70 *1.60	0.45	0.23	42303	Adulterated.
"	5	"	42306	O. C. Whitley, Goderich	3 "	30	" "	"	1.74 *1.88	0.47	0.24	42306	"
"	3	"	42585	Pickard & Fleming, St. Mary's.	3 "	30	Jas. Lloyd, Stratford.....	"	1.69 *1.88	0.43	0.31	42585	"
"	3	"	42586	John Walsh, St. Mary's.	3 "	30	Sugars & Cannery, Ltd., Montreal.	"	1.71 *1.70	0.48	0.29	42586	"
"	4	"	42592	Walsh Bros., Stratford..	3 "	30	Unknown.....	Guaranteed pure.....	1.48 *1.48	0.38	0.16	42592	"
"	4	"	42596	Knechtel Grocery Co., Stratford.	3 "	25	"	"	1.99 *1.85	0.51	0.33	42596	Doubtful.
"	4	"	42598	A. G. Lloyd, Stratford..	3 "	30	Jas. Lloyd, Stratford.....	"	1.81 *1.95	0.45	0.29	42598	Adulterated.
"	4	"	42600	R. S. Jones, Stratford...	3 "	25	"	"	2.04 *2.22	0.61	0.51	42600	Genuine.

DISTRICT OF WINDSOR—J. TALBOT, INSPECTOR.

April 18	Maple Sugar..	42544	J. A. McCrea & Son, 3 bars Guelph.	30	Sugars Ltd., Montreal....	p. c.	1.58	p. c.	0.47	p. c.	0.29	42544	Adulterated.
"	"	42550	J. M. Dooley, Guelph.. 3 "	30	"	*1.49	0.46	1.79	0.44	0.22	42550	"	
							*1.71					"	

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"	18	"	42553	Jas. Gow, Guelph.....	3	"	30	Unknown.....	3.98	42553	Genuine.
"	19	"	42555	Beck & Schell, Berlin..	3	"	30	Davidson & Hay, Toronto	1.98	0.56	0.11	42555	Doubtful.
"	19	"	42556	A. E. Heller, Berlin.....	3	"	45	W. L. Sager, Frelighsburg P. Q.	*1.95	.....	.....	42556	" ^{1.14}
"	19	"	42559	Dan. Bohlender, Water- loo, Ont.	3	"	30	Jno. Garvey & Son, Lon- don.	2.57	.....	.....	42559	Genuine.
"	19	"	42562	A. K. Raesch, Waterloo, Ont.	3	"	30	"	2.51	.....	.....	42562	"
"	20	"	42565	John Sloan, Galt.....	3	"	30	Guaranteed pure—Su- gars & Cannerns, Ltd..	2.18	0.52	0.22	42565	Doubtful.
"	20	"	42566	Hugh Walker, Galt.....	3	"	30	Geo. Watts & Son, Brant- ford.	*2.17	0.48	0.56	42566	"
"	21	"	42573	A. M. Smith & Son, 3 Woodstock, Ont.	3	"	30	Sugars & Cannerns, Ltd....	1.96	.....	.....	42573	"
"	21	"	42573	A. M. Smith & Son, 3 Woodstock, Ont.	3	"	30	Canada Maple Exchange Co., Montreal.	*1.88	.....	.....	42573	Genuine.
"	21	"	42573	A. M. Smith & Son, 3 Woodstock, Ont.	3	"	30	Canada Maple Exchange Co., Montreal.	2.48	.....	.....	42573	"
"	21	"	42573	A. M. Smith & Son, 3 Woodstock, Ont.	3	"	30	Canada Maple Exchange Co., Montreal.	3.45	.....	.....	42573	"

DISTRICT OF MANITOBA A. C. LARIVIERE, INSPECTOR.

April 26	Maple Sugar..	43446	Hardy & Buchanan, Os- borne St., Winnipeg.	2 lbs.	40	O. E. Sherwood, Foster, P. Q.	.....	4.33	.....	.....	43446	Genuine.
"	"	43447	W. H. Stone Co., Winni- peg.	1½ "	25	Unknown	.....	2.66	.....	.....	43447	"
"	"	43448	J. A. McKerchar, Win- nipeg.	1½ "	25	T. W. Taylor, Birehton. P. Q.	.....	5.66	.....	.....	43448	"
May	"	43449	Coyle Bros., Main St., Winnipeg.	1½ "	25	Maple Tree Producers As- sociation, Waterloo, P. Q.	.....	4.02	.....	.....	43449	"
"	"	43450	Harris Confectionery Store, 999 Main St., Winnipeg.	2 "	60	Imperial Syrup Co., Mont- real.	.....	1.79	0.55	0.10	43450	Doubtful.
"	"	43451	The Hudson's Bay Co., Winnipeg.	1½ "	30	Maple Tree Producers As- sociation, Waterloo, P. Q.	.....	*1.80	.....	.....	43451	"
"	"	43452	J. J. Jackson, 252 Main St., Winnipeg.	1½ "	30	"	.....	4.00	.....	.....	43452	Genuine.
"	"	43453	J. G. Hargrave & Co., Winnipeg.	1½ "	30	Bright & Emery, Winni- peg.	.....	3.42	.....	.....	43453	"
"	"	43454	T. E. Williams, William Ave., Winnipeg.	2½ "	25	Unknown	.....	4.73	.....	.....	43454	"
"	"	43455	J. Paterson, Market St., Winnipeg.	2½ "	25	"	.....	2.05	0.66	0.43	43455	"
"	"	43455	J. Paterson, Market St., Winnipeg.	2½ "	25	"	.....	2.95	.....	.....	43455	"

* Duplicate.

BULLETIN No. 215—MAPLE SUGAR.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.				No. of sample.	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.			Percentage on dry substance.	Lead Sub-acetate precipitate.	Total Ash.	Malic Acid Value.		

DISTRICT OF CALGARY—R. W. FLETCHER INSPECTOR.

1910.													
April 29	Maple Sugar.	43701	Copas & Emerson, Calgary.	Cal-2 lbs.	40	Maple Tree Producers' Assocn., Ltd., Waterloo, P.Q.	.....	p. c.	3.55	p. c.	.....	43701	Genuine.
" 29	"	43702	Wood & Green, Calgary.	2 " "	40	G. B. Hall, Barnston, P.Q.	.....	p. c.	3.33	p. c.	.....	43702	"
" 29	"	43703	Hudson's Bay Co., Calgary.	2 " "	40	Maple Tree Producers' Assocn., Ltd., Waterloo, P.Q.	.....	p. c.	4.28	p. c.	.....	43703	"
May 5	"	43704	R. Dunn, Medicine Hat.	2 " "	40	Donnelly, Watson & Brown, Calgary.	.....	p. c.	2.64	p. c.	.....	43704	"
" 5	"	43705	Spencer & Todd, Medicine Hat.	2 " "	50	Maple Tree Producers' Assocn., Ltd., Waterloo, P.Q.	.....	p. c.	3.86	p. c.	.....	43705	"
" 21	"	43706	The Good Co., Lethbridge.	2 " "	75	Edmund J. Berry, Bromo, P.Q.	.....	p. c.	2.64	p. c.	.....	43706	"
" 18	"	43707	Hallier & Aldridge, Edmonton.	2 " "	40	G. W. Earl, Elgin, Ont.	.....	p. c.	3.98	p. c.	.....	43707	"
" 18	"	43708	C. Campbell & Co., Edmonton.	2 " "	40	Unknown.	.....	p. c.	3.51	p. c.	.....	43708	"
" 18	"	43709	The Hudson's Bay Co., Edmonton.	2 " "	40	Maple Tree Producers' Assocn., Waterloo, P.Q.	p. c.	4.42	p. c.	43709	"
" 1	"	43710	Capital Mercantile Co., Edmonton.	2 " "	50	" "	p. c.	4.12	p. c.	43710	"

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DISTRICT OF VANCOUVER—D. O'SULLIVAN, ACTING INSPECTOR.

14	May	5	Maple Sugar.	44836	Thayer & Co., Vancouver, B.C.	2 lbs.	50	Edmund J. Berry, Québec.	2.95	44836	Genuine.
131	"	5	"	44838	The A. & C. Grocery Co., Vancouver, B.C.	1½ "	50	Maple Tree Producers' Assocn., Montreal.	.....	4.46	.....	44838	"
	"	5	"	44844	T. F. McDowell, Vancouver, B.C.	1½ "	30	Kelly, Douglas & Co., Vancouver.	.....	3.86	.....	44844	"
	"	5	"	44848	J. McTaggart, Vancouver, B.C.	2 "	40	Edmund J. Brome, Bromont, P.Q.	.....	3.04	.....	44848	"
	"	6	"	44852	J. S. Foran, Vancouver, B.C.	2½ "	60	D. N. McDougall, Martintown, P.Q.	.....	4.55	.....	44852	"
	"	6	"	44858	J. P. May, Vancouver, B.C.	1½ "	25	Kelly, Douglas & Co., Vancouver.	.....	4.64	.....	44858	"
	"	8	"	44875	West End Grocery, Westminster.	1½ "	25	The W. H. Malkin Co., Ltd., Vancouver.	.....	2.12	0.46	44875	Adulterated.
	"	8	"	44878	T. S. Amundale, Westminster.	1½ "	30	Kelly, Douglas & Co., Vancouver.	.....	2.05	0.60	44878	Doubtful.
	"	8	"	44880	C. A. Welch, Westminster.	2 "	30	"	.....	1.85	0.55	44880	"
	"	8	"	44882	The New Westminster Co-op. Assn., Ltd.	2 "	25	The W. H. Malkin Co., Ltd., Vancouver.	.....	1.94	0.56	44882	"

APPENDIX K.

BULLETIN No. 216—GROUND COFFEE.

OTTAWA, October 3, 1910.

WM. HIMSWORTH, Esq.,
Acting Deputy Minister of Inland Revenue.

SIR,—I have the honour to submit you herewith a report upon 297 samples purchased throughout Canada in June and July last, as Ground Coffee. The following is a summary statement of the results of their examination :—

		Samples.
Collected by	{ Sold unground.....	2
mistake.	{ " as compound.....	9
Found genuine.....		260
" adulterated.....		26
		<hr/> 297

Of 26 samples found adulterated, 15 contained chicory only, and in amount not exceeding 10 per cent. These samples I have thought it right to indicate as *technically adulterated*, since it is fair to assume that no intention to defraud the purchaser exists. An article offered as coffee, should undoubtly be nothing else than coffee, but so many consumers prefer a small addition of chicory that dealers frequently add an ounce or so to the pound in order to meet a known expectation of the customer.

This does not hold where the amount of chicory present is excessive (I have drawn the limit at 10 per cent), nor does it hold where roasted grain, or other starchy material is added.

The following table shows the results of coffee inspection in Canada since the year 1888 :—

Year.	Reported in Bulletin.	Total samples examined.	Found adulterated.	Found genuine.	Percentage found genuine.
1888.....	3	85	41	44	52
1892.....	29	140	55	54	38
1892	31	141	39	102	72
1904..	100	75	19	45	60
1909.....	172	449	45	391	87
1910	216	297	26	260	88

Samples not accounted for in the columns headed 'Adulterated' and 'Genuine' were classified as 'doubtful,' or 'sold as compound.' It is very satisfactory to observe that a great improvement in the character of this article is evidenced.

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At first sight it might seem practicable, and perhaps even desirable, to fix a limit for chicory, beyond which the addition of chicory to coffee, without declaration of the fact, should be regarded as actual adulteration. Such suggestion will not bear criticism, and the only tenable procedure would seem to be the distinct declaration that chicory is present, whenever it has been added in any quantity however small.

I beg to recommend the publication of this report as Bulletin No. 216.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,

Chief Analyst.

BULLETIN No. 216—GROUND COFFEE.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.			Microscopical Examination.	Sp. Gr. of a 10 per cent Extract.	Iodine Reaction for Starch.		

DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.

1910.												
June 29	Ground Coffee	42001	S. Thomson, Dartmouth, N.S.	½ lb ..	20	T. S. Esterbrooks, St. John, N. B.	'Red Cross' brand	.....	1·0091	None...	42001	Genuine.
" 29	"	42002	Colin McNab & Co., Dartmouth, N.S.	½ " ..	20	C. H. Cochrane, Ottawa	'McNab's Special'	.....	1·0091	"	42002	"
" 29	"	42003	A. W. Huxtable, Dartmouth, N.S.	½ " ..	15	Unknown	'White Swan'	Chicory.	1·0122	"	42003	About 10 p.c. chicory; technically adulterated.
" 29	"	42004	G. A. Ormon, Dartmouth, N.S.	½ " ..	20	Bower & Bartlett, Boston, Mass.	'Red Shield'	.....	1·0090	"	42004	Genuine.
July 5	"	42005	J. L. Archibald & Son, Halifax, N.S.	½ " ..	20	Chase & Sanborn, Boston, Mass.	'Seal' brand...	.....	1·0090	"	42005	"
" 5	"	42006	W. J. Hopgood & Son, Halifax, N.S.	½ " ..	20	"	'No. 1'	.....	1·0091	"	42006	"
" 5	"	42007	T. F. Courtney & Son, Halifax, N.S.	½ " ..	20	"	'Choice Jamaica'	.....	1·0091	"	42007	"
" 6	"	42008	A. L. Doyle & Co., Halifax, N.S.	½ " ..	15	"	.....	.....	1·0090	"	42008	"
" 6	"	42009	E. B. Tracey, Halifax, N.S.	½ " ..	15	C. H. Cochrane, Ottawa	.....	.....	1·0090	"	42009	"
" 6	"	42010	E. Donahoe & Son, Halifax, N.S.	½ " ..	20	Chase & Sanborn, Montreal.	.....	.....	1·0091	"	42010	"
" 6	"	42011	S. T. Creig, Halifax, N.S.	½ " ..	15	"	'Creig's Special'	.....	1·0090	"	42011	"
" 7	"	42012	Larder, Hubley & Co., Halifax, N.S.	½ " ..	18	Thos. Wood Co., Montreal.	'Boston Coffee'	.....	1·0090	"	42012	"
" 7	"	42013	Jno. Tobin & Co., Halifax, N.S.	½ " ..	20	Vendors	'I.N.L.' brand...	.....	1·0091	"	42013	"
" 7	"	42014	A. P. Torrens, Halifax, N.S.	½ " ..	20	Vendor	Mocha and Java.	.....	1·0093	"	42014	"

"	7	"	42015	Jas. Scott & Co., Halifax, N.S.	$\frac{1}{2}$ lb ..	18	Chase & Sanborn, Montreal.	Jamaica	1'0090	"	12015	"
"	7	"	42016	W. H. Schwartz & Sons, Halifax, N.S.	$\frac{1}{2}$ lb ..	15	Vendors	Sterling Blend ..	1'0094	"	42016	"
"	12	"	42017	De. Wolfe & Lamont, Kentville, N.S.	$\frac{1}{2}$ lb ..	20	Chase & Sanborn, Montreal.	No. 1 Blend	1'0090	"	42017	"
"	12	"	42018	S. L. Cross, Kentville, N.S.	$\frac{1}{2}$ lb ..	20	Thos. Wood Co., Montreal.	Boston Coffee ..	1'0090	"	42018	"
"	12	"	42019	G. N. Vaughan, Windsor, N.S.	$\frac{1}{2}$ lb ..	18	White Swan Spices & Cereal Co., Toronto.	.....	1'0091	"	42019	"
"	12	"	42020	M. W. Davison, Windsor, N.S.	$\frac{1}{2}$ lb ..	20	Chase & Sanborn, Montreal.	Pure	1'0091	"	42020	"

DISTRICT OF PRINCE EDWARD ISLAND—THEO. MOORE, INSPECTOR.

June	20	Ground Coffee	38720	C. C. Carlton, Souris.	$\frac{1}{2}$ lb ..	18	W. H. Schwartz & Sons, Halifax, N.S.	This coffee is mixed with other ingredients.	1'0127	Starch.	38720	Sold as compound.
"	20	"	38721	A. Currie & Co., Souris.	$\frac{1}{2}$ lb ..	20	"	.....	1'0128	"	38721	Labelled 'Compound.'
"	21	"	38722	A. L. McDonald, Souris.	$\frac{1}{2}$ lb ..	16	.....	Trace chicory ..	1'0135	"	38722	Container labelled 'Compound.'
"	21	"	38723	Sterns Bros., Souris.	$\frac{1}{2}$ lb ..	20	Chaput fils & Co., Montreal.	.....	1'0118	None	38723	Genuine.
"	22	"	38724	Cox Bros., Morell.	$\frac{1}{2}$ lb ..	18	Carvell Bros., Charlottetown.	.....	1'0109	"	38724	"
"	23	"	38725	M. L. McMillan, Hunter River.	$\frac{1}{2}$ lb ..	20	W. D. Stroud & Son, Montreal.	.....	1'0090	"	38725	"
"	23	"	38726	Geo. McLeod, Hunter River.	$\frac{1}{2}$ lb ..	18	Dearborn & Co., St. John, N.B.	Choice Java and Mocha.	1'0118	"	38726	About 10 p.c. chicory; technically adulterated.
"	23	"	38727	McLean Bros., North Wiltshire.	$\frac{1}{2}$ lb ..	16	Chaput fils & Co., Montreal.	.....	1'0089	"	38727	Genuine.
"	23	"	38728	J. A. Hynes, Kensington.	$\frac{1}{2}$ lb ..	16	Carvell Bros., Charlottetown.	XXX Java and Mocha.	1'0107	"	38728	"
"	23	"	38729	R. Tuplin & Co., Kensington.	$\frac{1}{2}$ lb ..	18	Chaput fils & Co., Montreal.	Old Government Java and Mocha.	1'0100	"	38729	"
"	24	"	38730	Brace & McKay, Summerside.	$\frac{1}{2}$ lb ..	20	Vendors .....	.....	1'0089	"	38730	s
"	24	"	38731	R. T. Halman, Ltd., Summerside.	$\frac{1}{2}$ lb ..	18	Chase & Sanborn, Montreal.	Java and Mocha.	.....	.....	38731	Not ground coffee.
"	24	"	38732	W. J. Lidstone, Summerside.	$\frac{1}{2}$ lb ..	20	Snowdon, Forbes & Co., Montreal.	Sun' brand; guar anteed absolutely pure.	1'0088	None	38732	Genuine.
"	24	"	38733	G. W. Warren, Summerside.	$\frac{1}{2}$ lb ..	20	G. E. Barbour, St. John, N.B.	'Acorn,' pure.	1'0090	"	38733	"
July	5	"	38734	Paul & Thompson, Montague.	$\frac{1}{2}$ lb ..	15	Pure Gold Co., Toronto.	'New York' Coffee	1'0171	Starch ..	38734	Marked 'Compound.'

BULLETIN No. 216—GROUND COFFEE.

Date of Collection.	Nature of Sample.	Name and Address of Vendor.	No. of Sample.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)	RESULTS OF ANALYSIS.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.			Microscopical Examination.	Sp. gr. of a 10 per cent Extract.	Iodine Reaction for Starch.		

DISTRICT OF PRINCE EDWARD ISLAND *(Continued.)*

1910.	July 5	Ground Coffee	38735	Wm. Lamont, Montague.	1 lb. . .	15	Unknown	.....	Chicory.	1.0126	None	38735	About 10 p.c. chicory; technically adulterated.
"	6	"	38736	J. D. Hume, Murray River.	1/2 " . .	20	"	.....	.....	1.0094	"	38736	Genuine.
"	6	"	38737	Prowse & Son, Murray River.	1/2 " . .	16	Carvell Bros., Charlottetown.	.....	.....	1.0115	"	38737	"
"	7	"	38738	Sanderson & Co., Charlottetown.	1/2 " . .	20	Vendors	.....	.....	1.0087	"	38738	"
"	7	"	38739	A. Gates & Co., Charlottetown.	1/2 " . .	20	"	.....	.....	1.0090	"	38739	"

DISTRICT OF NEW BRUNSWICK—J. C. FERGUSON, INSPECTOR.

June 14	Ground Coffee	45241	James Moulson, John, N.B.	St. 1/2 lb.	20	Vendor	.....	.....	1.0092	None	45241	Genuine.
" 14	"	45242	G. H. Humphrey, John, N.B.	St. 1/2 " . .	20	"	.....	.....	1.0092	"	45242	"
" 15	"	45243	Two Barkers, Ltd., John, N.B.	St. 1/2 " . .	15	Vendors	.....	.....	1.0092	"	45243	"
" 16	"	45244	Dearborn & Co., John, N.B.	St. 1/2 " . .	20	"	.....	.....	1.0089	"	45244	"
" 17	"	45245	G. E. Barbour Ltd., St. John, N.B.	Co., 1/2 " . .	20	"	Acorn brand	1.0094	"	45245	"
" 17	"	45246	R. A. McKinnon, Fairville, N.B.	Fair-1/2 " . .	20	Vendor	1.0090	"	45246	"

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June 23	Ground Coffee	45247	John Dewar & Son, St. George, N.B.	1 lb ..	18	Vendor	1' 0089	None ..	45247	Genuine.
" 24	"	45248	Fred E. Rose, St. Stephen, N.B.	1 1/2 " ..	20	"	Standard Java ..	1' 0093	"	45248	"
July 5	"	45249	M. E. Doohan, Fred erickton, N.B.	1 1/2 " ..	20	"	.....	1' 0089	"	45249	"
" 5	"	45250	The Yerva Grocery Co., Fredericton, N.B.	1 1/2 " ..	18	Venders ..	.....	1' 0089	"	45250	"
" 6	"	45251	W. S. Skillen, Wood- stock, N.B.	1 1/2 " ..	20	"	.....	1' 0090	"	45251	"
" 7	"	45252	Benjamin Beveridge, Andover, N.B.	1 1/2 " ..	25	T. H. Estabrooks, St. John, N.B.	Estabrook's Red Rose Coffee.	1' 0093	"	45252	"
" 8	"	45253	H. N. Dickinson, 1/2 Perth, N.B.	1 1/2 " ..	20	G. E. Barbour Co., Ltd., St. John, N.B.	'Acorn' brand ..	1' 0094	"	45253	"
" 9	"	45254	Jas. F. McCluskey, 1/2 Grand Falls, N.B.	1 1/2 " ..	20	Thos. Wood & Co., Boston and Montreal	Wood's Boston Coffee, 'Wo-Bo- Co' brand.	1' 0090	"	45254	"
" 19	"	45255	W. B. McKay & Co., 1/2 Ltd., Sussex, N.B.	1 1/2 " ..	20	Vendors ..	'Red Shield' ..	1' 0091	"	45255	"
" 19	"	45256	S. C. Goggin, Petit- codiac, N.B.	1 1/2 " ..	20	Vendor ..	.....	Coffee beans..	.....	45256	Not ground coffee
" 20	"	45257	J. A. Roy, Moncton, 1/2 N.B.	1 1/2 " ..	20	White Swan Co., To- ronto.	'White Swan' brand.	1' 0097	None ..	45257	Genuine.
" 20	"	45258	H. T. Brewster, Monc- ton, N.B.	1 1/2 " ..	20	Vendor ..	.....	1' 0090	"	45258	"

DISTRICT OF QUEBEC E. BELAND, INSPECTOR.

June 28	Ground Coffee	36443	Modeste Chaput, St. 1/2 lb .. Gregorie.	20	Pierre Dery, Mont- morency.	.....	Chicory ..	1' 0192	None ..	36443	About 50 p. c. chicory; adul- terated.
" 28	"	36444	Francois Lafleur, St. 1/2 " .. Gregorie.	20	Narcisse Fortier, Mont- morency.	.....	.....	1' 0090	"	36444	Genuine.
" 28	"	36445	Jule Bouchard, St. 1/2 " .. Gregorie.	20	Unknown ..	.....	.....	1' 0091	"	36445	"
" 28	"	36446	Ulric Vachon, St. 1/2 " .. Gregorie.	20	"	.....	Roasted grain ..	1' 0192	Present.	36446	Adulterated.
" 28	"	36447	Jos. E. Bergeron, Sault 1/2 " .. Montmorency.	20	Whitead & Turner, Quebec.	.....	.....	1' 0093	None ..	36447	Genuine.
" 28	"	36448	Jos. T. Blouin, Sault 1/2 " .. Montmorency.	20	N. Turcotte & Cie, Que- bec.	.....	.....	1' 0089	"	36448	"
" 28	"	36449	Filomon Bernard, 1/2 " .. Sault Montmorency	20	Stroud & Son, Montreal	.....	Chicory ..	1' 0137	"	36449	About 20 p. c. chicory; adul- terated.
" 28	"	36450	Louis Geroux, Sault 1/2 " .. Montmorency.	15	Unknown ..	.....	.....	1' 0090	"	36450	Genuine.

BULLETIN No. 216—GROUND COFFEE.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
				(Quantity.	Cents.			Microscopical Examination.	Sp. Gr. of a 10 per cent Extract.	Iodine Reaction for Starch.			

DISTRICT OF QUEBEC—Continued.

1910	June 28	Ground Coffee	36451	Jos. E. Touchette, 1 lb ..	20	J. B. Reneaud & Cie, Quebec.	.....	1.0091	None....	.....	36451	Genuine.
"	"	"	36452	Charles Clouette, Sault 1 1/2 " ..	20	Thomson, Quebec.	.....	1.0090	"	.....	36452	"
"	"	"	36453	Joseph Trambalay, 1 1/2 " ..	20	Unknown	.....	1.0092	"	.....	36453	"
"	"	"	36454	Jacque V. Legare, 1 1/2 " ..	20	N. Turcotte & Cie, Quebec.	.....	1.0091	"	.....	36454	"
"	"	"	36455	Mad. V. J. Morand, 1 1/2 " ..	16	J. B. Reneaud & Cie, Quebec.	.....	1.0093	"	.....	36455	"
"	"	"	36456	Pierre Legare, Charles- 1 1/2 " ..	13	Unknown	.....	1.0090	"	.....	36456	"
"	"	"	36457	Francois Jobin fils, 1 1/2 " ..	20	Turcotte frere & Cie, Quebec.	.....	1.0090	"	.....	36457	"
"	"	"	36458	Francois Jobin, Charles- 1 1/2 " ..	20	Unknown	.....	1.0092	"	.....	36458	"
"	"	"	36459	Jos. O. Savard, St. 1 1/2 " ..	20	"	.....	1.0096	"	.....	36459	"
"	"	"	36460	Henry Ross & Son, 1 1/2 " ..	20	Whitead & Turner, Quebec.	.....	1.0091	"	.....	36460	"
"	"	"	36461	Jule Verret, Jeune 1 1/2 " ..	20	Aming & Son, Montreal	.....	1.0093	"	.....	36461	"
"	"	"	36462	Francois Reneaud, 1 1/2 " ..	20	N. Turcotte & Cie, Quebec.	.....	1.0090	"	.....	36462	"

SESSIONAL PAPER No. 14

DISTRICT OF ST. HYACINTHE—J. C. ROULEAU, INSPECTOR.

June 22	Ground Coffee	1301	N. Larivé, Farnham...	$\frac{1}{2}$ lb.	20	Kearney Bros., Mont-Thistle Blend... real.	1 0108	"	1301	"
" 23	"	1302	A. Foisy, St. Jean ...	$\frac{1}{2}$ " "	20	Chase & Sanborn, Royal Blend Montreal.	1 0090	"	1302	"
" 23	"	1303	Tremblay & Cie, St. Catherine de Hatley.	$\frac{1}{2}$ " "	20	Denault Grain & Produce Co., Sherbrooke.	1 0091	"	1303	"
" 23	"	1304	T. Paradis, Magog...	$\frac{1}{2}$ " "	20	— Lister, Montreal.	1 0091	"	1304	"
" 24	"	1305	D. S. Bachaud, Coaticook.	$\frac{1}{2}$ " "	20	Chase & Sanborn, Montreal.	1 0090	"	1305	"
" 27	"	1306	Dme. W. Rochette, Sorel.	$\frac{1}{2}$ " "	20	A. C. Trempe, Sorel...	1 0111 Present.	Adulterated.	1306	Adulterated.
" 27	"	1307	J. E. Senecal, St. Joseph de Sorel.	$\frac{1}{2}$ " "	20	C. A. Peltier, St. Joseph de Sorel.	1 0099 None...	Genuine.	1307	Genuine.
" 27	"	1308	Thos. Gill, St. Francois du Lac.	1 " "	30	A. Comte & Cie, Montreal.	1 0114	"	1308	About 10 p.c. chicory; technically adulterated.
" 28	"	1309	Schooner & Cie, Pierreville.	$\frac{1}{2}$ " "	14	Laporte Martin & Cie, Montreal.	1 0090	"	1309	Genuine.
" 28	"	1310	E. Barril, Gentilly...	$\frac{1}{2}$ " "	15	L. Chaput fils & Cie, Montreal.	1 0114 Present.	Adulterated.	1310	Adulterated.
" 28	"	1311	N. Ricard, St. Gregoire de Nicolet.	$\frac{1}{2}$ " "	20	Unknown...	1 0094 None...	Genuine.	1311	Genuine.
" 29	"	1312	Jos. Mahew, Arthabaska.	$\frac{1}{2}$ " "	20	Kearney Bros, Mont-Thistle Blend... real.	1 0092	"	1312	"
" 30	"	1313	L. E. Thibault, Plessisville.	$\frac{1}{2}$ lb.	20	L. Chaput fils et Cie, Montreal.	1 0090	"	1313	"
July 11	"	1314	Royer & Fiset, Sherbrooke.	$\frac{1}{2}$ " "	20	Chase & Sanborn, Montreal.	1 0090	"	1314	"
" 11	"	1315	Dean & Lacy, Sherbrooke.	$\frac{1}{2}$ " "	20	"	1 0090	"	1315	"
" 12	"	1316	J. E. Roy, D'Issrael.	$\frac{1}{2}$ " "	20	C. O. Genest et fils, Sherbrooke.	1 0093	"	1316	"
" 12	"	1317	J. H. Dionne, Garthby.	$\frac{1}{2}$ " "	20	Chase & Sanborn, Montreal.	1 0091	"	1317	"
" 13	"	1318	R. B. Scott & Sons, Scotstown.	$\frac{1}{2}$ " "	20	Thos. Wood & Co., Ltd., Montreal.	1 0091	"	1318	"
" 14	"	1319	A. W. Girard, La Patrie.	1 " "	40	W. D. Stroud & Son, Compound Coffee Montreal.	1 0139	"	1319	Sold as compound. Contains about 20 p.c. chicory.
" 19	"	1320	M. Vezina, St. Denis River, Rich.	$\frac{1}{2}$ " "	20	Lacaille, Gendreau et Cie, Montreal.	1 0096	"	1320	Genuine.
" 19	"	1321	Omer Brien, St. Marc.	1 " "	30	The F. F. Dalley Co., Coffee mixture... Hamilton.	1 0194 Present.	Adulterated.	1321	Sold as coffee mixture.

BULLETIN No. 216—GROUND COFFEE.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.			No. of Sample.	Remarks and Opinion of the Chief Analyst.	
				Quantity.	Cents.			Microscopical Examination.	Sp. Gr. of a 10 per cent Extract.	Iodine Reaction for Starch.			
DISTRICT OF MONTREAL J. J. COSTIGAN, INSPECTOR.													
1910.													
June 13	Ground Coffee	39902	St. Feldman, 24 Pine Ave. E., Montreal.	1 lb.	15	National Coffee and Spice Co., Montreal.	.....	.....	1.0099	None	39902	Genuine.
" 13	"	39903	H. Schlachter, 18 Pine Ave. E., Montreal.	"	15	L. Slapack, Montreal.	.....	.....	1.0098	"	39903	"
" 13	"	39904	J. Estocovitch, 1195 St. Dominique, Montreal.	"	13	.....	.....	Chicory	1.0138	"	39904	Contains about 20 p.c. chicory. Adulterated.
" 13	"	39905	J. A. Marleau, 250 Duluth Ave. E., Montreal.	"	20	W. D. Stroud & Son, Montreal.	.....	.....	1.0094	"	39905	Genuine.
" 13	"	39906	J. Martineau, 913 St. Andre, Montreal.	"	20	Unknown.	.....	.....	1.0094	"	39906	"
" 13	"	39907	W. Chartrand, 1127 St. Andre, Montreal.	"	20	"	.....	.....	1.0099	"	39907	"
" 13	"	39908	H. Chevalier, 469 Marie Anne E., Montreal.	"	20	"	.....	Chicory	1.0162	"	39908	Contains about 30 p.c. chicory. Adulterated.
" 13	"	39909	L. J. Phaneuf, 541 Mount Royal Ave. E., Montreal.	"	20	Chase & Sanborn, Montreal.	.....	.....	1.0097	"	39909	Genuine.
" 13	"	39910	A. Mercier, 621 Mount Royal Ave. E., Montreal.	"	15	J. J. Duffy & Co., Montreal.	.....	.....	1.0089	"	39910	"
" 13	"	39911	A. Renillard, 578 Marie Anne E., Montreal.	"	20	.....	.....	.....	1.0090	"	39911	"
" 14	"	39912	F. Rivet, Joliette, P.Q.	"	20	E. D. Marceau, Montreal.	.....	.....	1.0091	"	39912	"
" 14	"	39913	J. A. Lavallee, Joliette, P.Q.	"	20	Unknown	.....	.....	1.0088	"	39913	"

SESSIONAL PAPER No. 14

14	"	39914	Pierre Poirrier, St. Gabriel de Brandon, P.Q.	1 1/2 lb ..	18	.....	.....	.....	1 0087	"	39914	"
"	14	39915	J. N. Prevost, St. Gabriel de Brandon, P.Q.	1 1/2 " ..	20	.....	.....	.....	1 0094	"	39915	"
"	16	39916	A. Poirier, Valleyfield, P.Q.	1 1/2 lb ..	20	L. Gendron, Valleyfield	.....	.....	1 0115	.....	39916	Contains less than 10 p.c. chicory; technically adulterated.
"	16	39917	N. Chartrand, Valleyfield, P.Q.	1 1/2 " ..	20	S. H. Ewing & Sons, Montreal.	.....	.....	1 0093	None	39917	Genuine.
"	18	39918	J. D. Campbell & Co., Lachute.	1 1/2 " ..	20	White Swan Spice and Cereal, Ltd., Toronto	.....	.....	1 0093	"	39918	"
"	18	39919	E. Lavigne, Lachute.	1 1/2 " ..	18	L. Chaput fils & Cie, Montreal.	Owl brand	.....	1 0110	"	39919	Contains less than 10 p.c. chicory; technically adulterated.
"	20	39920	D. Hetu, St. Agathe des Monts.	1 1/2 " ..	20	.....	Seal brand	.....	1 0092	"	39920	Genuine.
"	20	39921	J. H. Giroux, St. Agathe des Monts.	1 1/2 " ..	20	Vendor	.....	.....	1 0092	"	39921	"

DISTRICT OF OTTAWA—J. A. RICKY, INSPECTOR.

June 11	Ground Coffee	43001	H. T. Murray Co., Ltd., Brockville.	1 1/2 lb ..	20	Vendors	.....	.....	1 0090	None	43001	Genuine.
"	"	43002	McHenry's, Brockville	1 1/2 " ..	20	Vendor	.....	.....	1 0089	"	43002	"
"	"	43003	R. E. Powell, Elgin St., Ottawa.	1 1/2 " ..	20	"	.....	.....	1 0090	"	43003	"
"	"	43004	J. C. Wilson, Elgin St., Ottawa.	1 1/2 " ..	20	"	.....	.....	1 0090	"	43004	"
"	"	43005	D. A. Younghusband, Elgin St., Ottawa.	1 1/2 " ..	20	McLaren's, Hamilton.	.....	.....	1 0098	"	43005	"
"	"	43006	J. H. Lushley, 51 Main St., Ottawa.	1 1/2 " ..	20	Vendor	After purchase vendor stated sample contained about 1 oz. chicory	Chicory	1 0137	"	43006	Contains about 20 p.c. chicory. Adulterated.
"	"	43007	Stroud's, Hull, P.Q.	1 1/2 " ..	20	"	After purchase vendor stated sample contained chicory.	"	1 0114	"	43007	Contains less than 10 p.c. chicory; technically adulterated.
"	"	43008	O. Lemieux, Hull, P.Q.	1 1/2 " ..	20	.....	.....	.....	1 0092	"	43008	Genuine.

BULLETIN No. 216—GROUND COFFEE.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and Opinion of the Chief Analyst.	
				Quantity.	Cents.			Microscopical Examination.	% (tr. of a 10 per cent Extract.	Iodine Reaction for Starch.				
DISTRICT OF OTTAWA—Continued.														
1910.														
"	15 Ground Coffee	43009	P. H. Charron, Hull, P.Q.	1 lb ..	20	Vendor.....	.....	1.0088	None...	.....	43009	Genuine.
"	"	43010	Nelson Grayburn, Billings Bridge.	1/2 " ..	15	J. M. Lowes, Toronto.	J. M. Lowes coffee	1.0087	"	.....	43010	"	
"	"	43011	G. E. Pelton, Billings Bridge.	1/2 " ..	20	F. J. Castle Co., Ottawa.	Chase & Sanborn's coffee.	1.0087	"	.....	43011	"	
"	"	43012	D. G. Cowan, Billings Bridge.	1/2 " ..	18	J. M. Lowes, Toronto.	J. M. Lowes coffee	1.0090	"	.....	43012	"	
"	"	43013	Leacy & Shields, Pembroke.	1/2 " ..	20	Vendors.....	.....	1.0091	"	.....	43013	"
"	"	43014	Fenton & Smith, Pembroke.	1/2 " ..	20	"	.....	1.0087	"	.....	43014	"
"	"	43015	D. J. Gillies, Cornwall	1/2 " ..	20	Vendor .....	.....	1.0088	"	.....	43015	"
"	"	43016	Fawkes & Co., Cornwall.	1/2 " ..	20	Vendors.....	.....	1.0090	"	.....	43016	"
"	"	43017	Casselman Bros., Morrisburg.	1/2 " ..	18	Vendors.....	.....	1.0089	"	.....	43017	"
"	"	43018	Bradfield Bros., Morrisburg.	1/2 " ..	18	"	.....	1.0088	"	.....	43018	"
July	"	43019	C. Whitney & Son, Prescott.	1/2 " ..	18	"	.....	1.0089	"	.....	43019	"
"	"	43020	J. Mayberry & Co., Prescott.	1/2 " ..	18	"	.....	1.0089	"	.....	43020	"

SESSIONAL PAPER No. 14

DISTRICT OF KINGSTON—JAS. HOGAN, INSPECTOR.

June 16	Ground Coffee	45701	Stroud Bros., Kingston.	King- ston.	1 lb.	20	Stroud Bros., Montreal	.....	.....	1 0092	None	45701	Genuine.
"	"	45702	P. A. Haffner, Kingston.	King- ston.	1 1/2 "	15	J. M. Lowes, Toronto.	.....	.....	1 0090	"	45702	"
"	"	45703	J. McCulla, Kingston	Kingston	1 1/2 "	20	Todhunter & Mitchell, Toronto.	.....	.....	1 0091	"	45703	"
"	"	45704	J. Lemmon, Kingston	Kingston	1 1/2 "	10	Dalton Bros., Toronto.	.....	.....	1 0120	.....	45704	Contains about 15 p.c. chicory adulterated.
"	"	45705	D. B. Gage, Kingston	Kingston	1 1/2 "	20	Geo. Robertson & Son, Kingston.	.....	.....	1 0094	None	45705	Genuine.
"	"	45706	Mrs. Powers, Kingston.	Kingston	1 1/2 "	20	Gorman & Eckert, Ltd. London.	.....	.....	1 0086	"	45706	"
"	"	45707	R. Richardson, Napanee.	Napanee.	1 1/2 "	15	.....	Coffee was part of stock, bought from former proprietor W. Coxall.	.....	1 0092	"	45707	"
"	"	45708	J. Paisley, Napanee.	Napanee.	1 1/2 "	20	.....	.....	.....	1 0108	.....	45708	Contains a trace of chicory, technically adulterated.
"	"	45709	R. Elvins, Belleville.	Belleville.	1 1/2 "	20	Unknown	.....	.....	1 0091	None	45709	Genuine.
"	"	45710	A. G. Vermilyea, Belleville.	Belleville.	1 1/2 "	20	Pure Gold Co., Toronto	.....	.....	1 0084	"	45710	"
"	"	45711	W. Patterson, Belleville.	Belleville.	1 1/2 "	20	C. H. Cochrane, Ottawa.	.....	.....	1 0085	"	45711	"
"	"	45712	Wallbridge & Clarke, Belleville.	Belleville.	1 1/2 "	20	Chase & Sanborn, Toronto.	.....	.....	1 0088	"	45712	"
"	"	45713	T. A. Fisher, Lindsay	Lindsay	1 1/2 "	20	Todhunter & Mitchell, Toronto.	.....	.....	1 0088	"	45713	"
"	"	45714	Adams Bros., Lindsay	Lindsay	1 1/2 "	20	Chase & Sanborn, Montreal.	.....	.....	1 0087	"	45714	"
"	"	45715	J. Flurey, Lindsay.	Lindsay.	1 1/2 "	20	J. Sloan, Toronto.	.....	.....	1 0091	"	45715	"
"	"	45716	A. C. Babcock, Lindsay.	Lindsay.	1 1/2 "	20	E. Blain, Toronto.	.....	.....	1 0088	"	45716	"
"	"	45717	H. S. Burnham, Peterboro.	Peterboro.	1 1/2 "	20	Perkins Ince & Co., Peterboro.	.....	.....	1 0092	"	45717	"
"	"	45718	H. B. Bradshaw, Peterboro.	Peterboro.	1 "	20	Todhunter & Mitchell, Toronto.	.....	.....	1 0088	"	45718	"
"	"	45719	A. J. Warne, Peterboro.	Peterboro.	1 lb.	20	McLarens, Hamilton.	.....	.....	1 0090	"	45719	"
"	"	45720	S. Prout, Port Hope.	Port Hope.	1 "	20	E. Blain, Toronto.	1 0088	"	45720	"

BULLETIN No. 216—GROUND COFFEE.

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				Quantity.	Cents.			Microscopical Examination.	Sp. Gr. of a 10 per cent Extract.	Iodine Reaction for Starch.			
DISTRICT OF TORONTO—H. J. DAGGER, INSPECTOR.													
1910													
June 16	Ground Coffee	45057	C. E. Jones, Uxbridge	$\frac{1}{2}$ lb.	20	R. B. Hayhoe & Co., Toronto.	Sample from tin, labelled 'Golden Eagle' Coffee, J. M. Lowes, Ltd., Toronto. Sold as ground coffee.	1.0119	None		45057	Contains about 10 p.c. chicory, technically adulterated.	
" 17	"	45058	S. W. Siddall, Hughson St., Hamilton.	$\frac{1}{2}$ "	15	Vendor.		1.0094	"		45058	Genuine.	
" 18	"	45059	The Whitfield Tea and Specialty Co., Hamilton.	$\frac{1}{2}$ "	20			1.0112	"		45059	Contains a trace of chicory, technically adulterated.	
" 21	"	45060	Mrs. C. Fitzpatrick, Arthur St., Toronto.	$\frac{1}{2}$ "	20	Minto Bros., Toronto.		1.0090	"		45060	Genuine.	
" 23	"	45062	S. J. McMorran, Alendale.	$\frac{1}{2}$ "	20	The J. M. Lowes Co., Ltd., Toronto.	Vendor bought as pure coffee.	1.0093	"		45062	"	
" 27	"	45063	J. B. Johnson, Orillia	$\frac{1}{2}$ "	20	R. B. Hayhoe & Co., Toronto.		1.0094	"		45063	"	
" 29	"	45064	H. G. Jefferies, Parliament St., Toronto	$\frac{1}{2}$ "	15	Unknown		1.0090	"		45064	"	
" 29	"	45065	A. L. Anderson, Dundas St., W., Toronto.	$\frac{1}{2}$ "	15	Club Coffee Co., Toronto.		1.0103	"		45065	"	
" 30	"	45066	Jas. Bishop, Oshawa	$\frac{1}{2}$ "	20	Thos. Kinneir & Co., Toronto.		1.0097	"		45066	"	
" 30	"	45067	W. B. Pringle, Whitby	$\frac{1}{2}$ "	20	The Eby Blain Co., Ltd., Toronto.		1.0096	"		45067	"	
July 5	"	45068	John Groves, Gravenhurst.	$\frac{1}{2}$ "	20	Chase & Sanborn, Montreal.	'Seal' Brand.	1.0091	"		45068	"	

"	5	"	45069	R. A. Lawson, Brace- bridge,	20	Unknown	.....	.....	1·0096	"	45069	"
"	6	"	45070	J. J. Bailey, Hunts- ville,	20	Chase & Sanborn, Mon- real.	.....	.....	1·0092	"	45070	"
"	6	"	45071	M. B. Green, Hunts- ville,	13	Perkins Ince. & Co., Toronto.	.....	Chicory	1·0120	"	45071	Contains about 10 p.c. chicory, technically adulterated.
"	6	"	45072	James Cain, Hunts- ville,	20	Unknown	.....	.....	1·0180	Present.	45072	Adulterated.
"	7	"	45073	A. E. Callahan, Hunts- ville,	20	J. M. Lowes & Co., Toronto.	.....	'Golden Eagle'	1·0091	None	45073	Genuine.
"	8	"	45074	J. H. Badger, Parry Sound.	20	The Eby Blain Co., Ltd., Toronto.	.....	.....	1·0093	"	45074	"
"	8	"	45075	R. M. Holmes, Parry Sound.	20	"	.....	'Empress' Coffee.	1·0091	"	45075	"
"	8	"	45076	Malcolm & Hill, Parry Sound.	13	C. H. Cochrane & Co., Ottawa.	.....	.....	1·0111	"	45076	Contains a trace of chicory, technically adulterated.
"	8	"	45098	W. R. Kenney, Parry Harbour.	20	Davidson & Hay, Toronto.	.....	'Capital'	1·0094	"	45098	Genuine.

DISTRICT OF LONDON—T. KIDD, INSPECTOR.

July 23	Ground Coffee	44606	Cardino Bros., Sea- forth.	20	Thos. Woods, Montreal	.....	.....	1·0092	None	44606	Genuine.
" 26	"	44608	Harrison Wiltse, Clin- ton.	20	White Swan Co., To- ronto.	.....	.....	1·0090	"	44608	"
" 26	"	44611	B. A. McKwin, Clin- ton.	20	Canada Spice and Gro- cery Co., Toronto.	.....	.....	1·0091	"	44611	"
June 25	"	44754	Maurice Blatter, gro- cer, Clinton.	40	F. E. Dalley Co., Hamilton.	.....	.....	1·0091	"	44754	"
" 27	"	44757	J. A. McCrea, Guelph	20	Todhunter & Mitchell, Toronto.	.....	.....	1·0089	"	44757	"
" 27	"	44758	Hood & Banallie, Guelph.	20	"	.....	.....	1·0089	"	44758	"
" 28	"	44764	A. Beattie & Co., Stratford.	20	Chase & Sanborn, Montreal.	.....	.....	1·0092	"	44764	"
July 12	"	44767	Morrick & McClinton, grocers, Goderich.	20	Todhunter & Mitchell, Toronto.	.....	.....	1·0090	"	44767	"
" 13	"	44769	J. J. McEwin, God- erich.	20	Gorman & Eckert, Lon- don, Ont.	.....	.....	1·0090	"	44769	"
" 13	"	44771	O. C. Whitley, God- erich.	20	Todhunter & Mitchell, Toronto.	.....	.....	1·0090	"	44771	"
" 13	"	44776	G. M. Chambers, Ply- mthe.	40	Unknown	.....	.....	1·0090	"	44776	"

BULLETIN No. 216—GROUND COFFEE.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.			Microscopical Examination.	Sp. Gr. of a 10 per cent Extract.	Iodine Reaction for Starch.		

DISTRICT OF LONDON—Continued.

1910.												
"	14	Ground Coffee	44779	McGelow & Cummings, grocers, Wingham.	$\frac{1}{2}$ lb ..	20	Chase & Sanborn, Montreal.	.....	1.0094	None...	44779	Genuine.
"	14	"	44782	Fred Bender, Listowell.	1 " ..	40	Unknown.....	.....	1.0091	" ..	44782	"
"	14	"	44783	J. H. McDonald, Listowell.	1 " ..	40	Jas. Turner & Co., Hamilton.	.....	1.0091	" ..	44783	"
"	19	"	44790	J. M. Adam, St. Mary's towel.	$\frac{1}{2}$ " ..	20	Vendor.....	.....	1.0090	" ..	44790	"
"	19	"	44791	A. Beattie & Co., St. Mary's.	$\frac{1}{2}$ " ..	20	Chase & Sanborn, Montreal.	.....	1.0091	" ..	44791	"
"	20	"	44794	Michael Durkin, Mitchell.	$\frac{1}{2}$ " ..	20	Thos. Wood, Montreal.	.....	1.0091	" ..	44794	"
"	21	"	44799	Michael Kinghamer, Dublin.	$\frac{1}{2}$ " ..	20	Gorman & Eckert, London.	.....	1.0090	" ..	44799	"

DISTRICT OF WINDSOR—JOHN. TALBOT, INSPECTOR.

June	20	Ground Coffee	42324	A. Raines, Essex.....	$\frac{1}{2}$ lb ..	13	Todhunter & Mitchell, Toronto.	.....	1.0089	None...	42324	Genuine.
"	20	"	42327	J. J. Foster, Leamington.	$\frac{1}{2}$ " ..	15	M. Masuret & Co., London.	.....	1.0088	" ..	42327	"
"	27	"	42342	Alfred Johnson, London.	$\frac{1}{2}$ " ..	20	Pure Gold Mfg. Co., Toronto.	.....	1.0091	" ..	42342	"
"	"	"	42343	F. W. Paul & Son, London.	$\frac{1}{2}$ " ..	20	Gorman Eckert & Co., London.	.....	1.0090	" ..	42343	"
"	27	"	42347	T. W. Vincent, London.	$\frac{1}{2}$ " ..	20	Canada Spice & Grocery Co., London.	.....	1.0092	" ..	42347	"

"	27	"	42348	Fonger & Taylor, London.	20	1 lb.	Todhunter & Mitchell, Toronto.	.....	1·0091	.....	42348	.....
"	27	"	42402	Robt. Parsons, London	25	1 "	White-Swan Cereal Co., Toronto.	.....	1·0160	Present.	42402	Labelled, a mixture in small type.
"	27	"	42403	W. Davies, London	15	1 "	Davies Co., Toronto.	.....	1·0112	None	42403	Contains less than 10 p.c.; chicory technically adulterated
"	27	"	42405	A. Kiborn, London	13	1 "	J. E. Connor, London.	.....	1·0090	"	42405	Genuine.
"	27	"	42408	H. Fontaine, London	13	1 "	Gorman Eckert & Co., London.	.....	1·0091	"	42408	"
"	27	"	42409	Wm. Hayes, London	13	1 "	Balfour & Co., Hamilton.	.....	1·0092	"	42409	"
"	28	"	42413	P. Purvis, London	13	1 "	A. M. Smith & Co., London.	.....	1·0090	"	42413	"
"	28	"	42415	J. McKenzie, London	15	1 "	Gorman Eckert & Co., London.	.....	1·0089	"	42415	"
"	28	"	42416	Connor Bros., London	13	1 "	Unknown	.....	1·0091	"	42416	"
"	28	"	42419	F. Harley & Son, London.	15	1 "	C. H. Cochrane & Co., Ottawa.	.....	1·0093	"	42419	"
"	28	"	42421	E. Noel, London	13	1 "	Thos. Wood, Montreal	.....	1·0092	"	42421	"
"	28	"	42422	Wm. Loughrey, London.	15	1 "	Unknown	.....	1·0091	"	42422	"
"	28	"	42423	Fulcher & Northmore, London.	15	1 "	A. M. Smith & Co., London.	.....	1·0089	"	42423	"
"	28	"	42425	Kidner & Co., London	13	1 "	Gorman Eckert & Co., London.	.....	1·0091	"	42425	"
"	28	"	42426	Mrs. Hobbins, London	20	1 "	Canada Spice & Grocery Co., London.	.....	1·0090	"	42426	"

DISTRICT OF MANITOBA—A. C. LARIVIERE, INSPECTOR.

June	23	Ground Coffee	43467	Collins & Munroe, Miami.	20	1 lb.	The Blue Ribbon Co., Winnipeg.	.....	1·0094	None	43467	Genuine.
"	30	"	43468	A. C. Duke, Winnipeg Beach.	20	1 "	The Hudson Bay Co., Winnipeg.	.....	1·0092	"	43468	"
"	30	"	43469	Wm. Robinson & Co., Ltd., Winnipeg	20	1 "	Gold Standard Mfg. Co., Winnipeg.	.....	1·0092	"	43469	"
July	6	"	43470	Duncan & Hunter, James.	15	1 "	Unknown	.....	1·0090	"	43470	"
"	6	"	43471	Gregory & Co., James.	20	1 "	Foley Bros. & Larson, Winnipeg.	.....	1·0091	"	43471	"
"	7	"	43472	A. Biggins, Elgin	20	1 "	The Dyson Co., Winnipeg.	.....	1·0090	"	43472	"

DISTRICT OF CALGARY R. W. FLETCHER, INSPECTOR.

July	5	Ground Coffee	43736	Cradlock & Viner, 1 lb., Lethbridge.	20	Vendors	1 0091	None	43736	Genuine.
"	5	"	43737	George Keir & Co., 1 lb., Lethbridge.	20	"	1 0091	"	43737	"
"	5	"	43738	A. Macdonald & Co., 1 lb., Lethbridge.	20	"	1 0093	"	43738	"
"	5	"	43739	Hudson's Bay Co., 1 lb., Lethbridge.	20	"	1 0090	"	43739	"
"	13	"	43741	R. Dunn, Medicine Hat.	25	Vendor	1 0090	"	43741	"
"	13	"	43742	The D. Milne Co., 1 lb., Ltd., Medicine Hat.	25	Vendors	1 0091	"	43742	"
"	22	"	43743	W. H. Hayes, Calgary	20	Young Bros., Vancouver, B.C.	1 0091	"	43743	"
"	22	"	43744	D. Jackson, Calgary.	25	Wood & Green, Calgary.	1 0089	"	43744	"
"	22	"	43745	R. A. Rosser, Calgary	25	Vendor	1 0090	"	43745	"
"	22	"	43746	J. T. Macdonald, Calgary.	15	"	1 0090	"	43746	"
"	22	"	43747	Speer Bros., Calgary	25	Vendors	1 0089	"	43747	"
Aug.	8	"	43748	C. E. Compton, Wetaskiwin.	25	Vendor	1 0091	"	43748	"
"	8	"	43749	Thibault & Co., Wetaskiwin.	25	Vendors	1 0094	"	43749	"
"	9	"	43750	Douglas Bros., Ltd., Strathcona, Alta.	25	"	1 0090	"	43750	"
"	9	"	43751	A. H. Richards & Co., Strathcona, Alta.	25	A. H. Richards & Co.	1 0089	"	43751	"
"	10	"	43752	A. Livingston, Edmonton.	25	Vendor	1 0091	"	43752	"
"	10	"	43753	Fred. Schattner, Edmonton.	25	"	1 0092	"	43753	"
"	10	"	43754	Aitkin Bros., Edmonton.	25	Vendors	1 0090	"	43754	"
"	10	"	43755	Wm. Hencher, Edmonton.	25	Vendor	1 0090	"	43755	"
"	10	"	43801	Hallier & Aldridge, Edmonton.	25	Vendors	1 0089	"	43801	"

DISTRICT OF VANCOUVER J. F. POWER, INSPECTOR.

June 21	Ground Coffee	37936	R. L. Carter, Hancy, B.C.	20	Empress Mfg. Co., Vancouver.	1 0093	None	37936	Genuine.
" 21	"	37937	G. W. Allison, Hammond.	20	W. Braid & Co., Vancouver.	1 0092	"	37937	"

BULLETIN No. 216—GROUND COFFEE.

Date of Collection.	Nature of Sample.	No. of Sample.	Cost.		Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.			No. of Sample.	Remarks and opinion of the Chief Analyst.
			Name and Address of Vendor.	Quantity.		Microscopical Examination.	Sp. Gr. of a Extract.	Iodine Reaction for Starch.		
				Cents.						

DISTRICT OF VANCOUVER—Continued.

1910.										
"	22	Ground Coffee	37938 E. Pooke & Co., Vancouver.	20	W. Braid & Co., Vancouver.	.....	1.0086	None.	37938	Genuine.
"	22	"	37939 Mrs. McWhinney, Vancouver.	20	Kelly Douglas & Co., Vancouver.	.....	1.0094	"	37939	"
"	23	"	37940 Leaning Pawcette & Wilson, Ladner, B.C.	20	"	.....	1.0090	"	37940	"
"	23	"	37941 W. H. Smith, Ladner, B.C.	20	W. Braid & Co., Vancouver.	Chicory.....	1.0136	"	37941	Contains more than 15 p.c. chicory adulterated.
"	23	"	37942 H. J. Hutchinson, Ladner, B.C.	20	Pioneer Coffee & Spice Mills, Victoria, B.C.	.....	1.0089	"	37942	Genuine.
"	23	"	37943 Rubinowitz Dept Stores, Steveston, B.C.	20	North West Spice Mills.	.....	1.0094	"	37943	"
"	23	"	37944 Eburne Trading Co., Eburne, B.C.	20	Wm. Braid & Co., Vancouver.	Chicory.....	1.0106	"	37944	Contains a trace of chicory, technically adulterated.
"	27	"	37945 G. A. Welsh, Sapperton, B.C.	20	"	.....	1.0088	"	37945	Genuine.
"	27	"	37946 T. S. Annandale, Westminister, B.C.	20	Wm. Braid & Co., Vancouver.	.....	1.0089	"	37946	"
"	27	"	37947 Geo. Adams, Westminister, B.C.	20	Kelly, Douglas & Co., Vancouver.	.....	1.0087	"	37947	"
"	27	"	37948 West End Grocery, New Westminister, B.C.	20	Wm. Braid & Co., Vancouver.	.....	1.0089	"	37948	"

"	27	"	37949	J. Quoy, New Westminster, B.C.	20	1/2 lb.	Kelly, Douglas & Co., Vancouver.	.....	1'0090	"	37949	"
"	27	"	37950	A. Gaudin, New Westminster, B.C.	10	1/2 lb.	Unknown	.....	1'0090	"	37950	"
"	27	"	37951	N. C. Nilson, Westminister, B.C.	15	1/2 lb.	"	.....	1'0089	"	37951	"
"	27	"	37952	Larsen & Anne, New Westminster, B.C.	15	1/2 lb.	Wm. Braid & Co., Vancouver.	.....	1'0087	"	37952	"
"	27	"	37953	Herbert & Moore, New Westminster, B.C.	15	1/2 lb.	Earle & Co., Victoria	.....	1'0087	"	37953	"
"	28	"	37954	Wells & Co., Vancouver.	25	1/2 lb.	Wm. Braid & Co., Vancouver.	.....	1'0105	"	37954	Contains a trace of chicory; technically adulterated.
"	28	"	37955	Jno. F. May, Vancouver.	25	1/2 lb.	"	.....	1'0090	"	37955	Genuine.

DISTRICT OF VICTORIA - D. O'SULLIVAN, INSPECTOR.

June	20	Ground Coffee	41679	Windsor Grocery Co., Victoria, B.C.	20	1/2 lb.	Pioneer Coffee & Spice Mills, Victoria, B.C.	Vendor stated sample contained chicory.	Chicory	.....	1'0115	None	41679	Contains about 10 p. c. chicory. Sold as compound.
"	20	"	41680	The Saunders Grocery Co., Ltd., Victoria, B.C.	20	1/2 lb.	Chase & Sanborn, Montreal.	.....	.....	.....	1'0094	"	41680	Genuine.
"	21	"	41681	The West End Grocery Co., Ltd., Victoria, B.C.	20	1/2 lb.	W. Braid & Co., Vancouver.	.....	.....	.....	1'0090	"	41681	"
"	21	"	41682	H. D. Kirkham, Victoria, B.C.	20	1/2 lb.	Hallam & Wyndham, Victoria.	.....	.....	.....	1'0096	"	41682	"
"	22	"	41683	Harrison & McDonald, Victoria, B.C.	20	1/2 lb.	A. Shilling & Co., San Francisco, Cal.	.....	.....	.....	1'0090	"	41683	"
"	22	"	41684	Acton Bros., Victoria, B.C.	20	1/2 lb.	Young Bros., Vancouver.	.....	.....	.....	1'0090	"	41684	"
"	22	"	41685	Wm. B. Hall, Victoria, B.C.	20	1/2 lb.	Empress Mfg. Co., Vancouver.	.....	.....	.....	1'0090	"	41685	"
"	23	"	41686	Copas & Young, Victoria, B.C.	20	1/2 lb.	The W. H. Malkin Co., Vancouver.	.....	.....	.....	1'0089	"	41686	"
"	23	"	41687	F. C. Plummer, Victoria, B.C.	20	1/2 lb.	Young Bros., Vancouver.	.....	.....	.....	1'0092	"	41687	"
"	24	"	41688	L. Dickinson, Victoria, B.C.	20	1/2 lb.	Pioneer Coffee & Spice Mills, Victoria, B.C.	.....	.....	.....	1'0094	"	41688	"
"	24	"	41689	J. Renout, Victoria, B.C.	20	1/2 lb.	The W. A. Jameson Coffee Co., Victoria, B.C.	Vendor stated sample was not sold as pure coffee, as it contained a little chicory.	Trace of chicory.	.....	1'0109	"	41689	Contains a trace of chicory. Sold as compound.

BULLETIN No. 216—GROUND COFFEE.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.				Remarks and Opinion of the Chief Analyst.	
				Quantity.	Cents.			Microscopical Examination.	Sp. Gr. of a 10 per cent Extract.	Iodine Reaction for Starch.	No. of Sample.		
DISTRICT OF VICTORIA—Continued.													
1910.													
June 24	Ground Coffee	41690	E. G. Bailey, Victoria, B.C.	20 lb.	20	Empress Mfg. Co., Vancouver.			1.0090	None	41690	Genuine	
" 24	"	41691	Erskine & Co., Victoria, B.C.	20 lb.	20	Victoria Coffee & Spice Mills, Victoria, B.C.			1.0093	"	41691	"	
" 27	"	41692	A. Pool, Victoria, B.C.	20 lb.	20	Empress Mfg. Co., Vancouver.			1.0091	"	41692	"	
" 27	"	41693	Dixie H. Ross & Co., Victoria, B.C.	20 lb.	20	J. A. Folger & Co., San Francisco, Cal.			1.0092	"	41693	"	
" 28	"	41694	Carl B. Jameson, Victoria, B.C.	20 lb.	20	The W. A. Jameson Coffee Co., Victoria, B.C.			1.0089	"	41694	"	
" 28	"	41695	Woods & White, Victoria, B.C.	20 lb.	20	"			1.0093	"	41695	"	
" 28	"	41696	Hallam & Wyndham, Victoria, B.C.	20 lb.	20	J. W. Berry, Vancouver, B.C.			1.0091	"	41696	"	
" 28	"	41697	J. J. Bradford, Victoria, B.C.	20 lb.	20	Empress Mfg. Co., Vancouver, B.C.			1.0092	"	41697	"	
" 18	"	41698	W. A. Jameson Coffee Co., Victoria, B.C.	20 lb.	20	Thos. B. Greening & Co., Toronto, Ont.			1.0094	"	41698	"	

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APPENDIX L.

BULLETIN No. 217—STRAINED HONEY.

OTTAWA, October 4, 1910.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR,—I beg to hand you a report upon 148 samples purchased in June and July of this year, as Strained Honey. The collection represents all parts of the Dominion.

Three samples purchased in Montreal, are labelled as compound. Section 30 of the Adulteration Act forbids the sale of imitations of honey, and a circular (G. 862) was issued by the department, and dated Jan. 20, 1909, as follows:—

‘Under Section 30 of the ‘Adulteration Act’ the manufacture, sale or offering for sale in Canada of any imitation of honey or sugar honey or other substitute for honey is strictly forbidden. The provisions of Section 24 of the said Act respecting the use of the word ‘mixture’ does not apply to honey and any production or sale of this article as a compound is absolutely prohibited.’

The punishment for any offence against the provisions of Section 30, above referred to, is determined by Section 164 of the Criminal Code and consists in the liability to a term of imprisonment for one year.’ It appears from correspondence with vendors that the sale of compound honey has been due to ignorance of the existence of any prohibition in the case.

With regard to the remaining 145 samples, decision as to their genuineness will depend upon the constants accepted as limits of variability for true honey. This important matter has more than once been brought to the notice of those interested by the late Chief Analyst, in Bulletin 90 (1903), and by myself in Bulletin 145 (1908). In November, 1908, I addressed the Ontario Bee-Keepers’ Association at Toronto, upon the subject of standards for honey, and, in consequence the following letter was forwarded to the Deputy Minister.

ONTARIO DEPARTMENT OF AGRICULTURE,

PARLIAMENT BUILDINGS,

TORONTO, November 30, 1908.

DEAR SIR,—I beg to transmit you herewith copy of resolution which was passed at the last meeting of the Ontario Bee-Keepers’ Association held in Toronto, November 11-13.

I might say that this resolution was passed toward the close of the Convention. Mr. McGill, Chief Analyst of your department gave the members a very clear address on the ‘Adulteration of Honey.’ Our members had considered this matter more or less for a number of years, and the attendance at the session when Mr. McGill delivered

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his address was the best that we have known for a long time, so that a great deal of interest was taken in the matter. The discussion on the paper lasted through the succeeding three sessions and finally culminated in the adoption of the inclosed resolution.

As an Association, we are now asking your department for the necessary legislation to be passed whereby the sense of the aforementioned resolution will become law.

The discussion on Mr. McGill's address as well as the address itself will be published in full in the Annual Report, and I will have much pleasure in sending a copy to you on receipt of the same from the King's Printer.

Very truly yours,

(Sgd). P. W. HODGETTS.

W. J. GERALD, Esq.,
Deputy Minister,
Inland Revenue Department,
Ottawa, Ont.

Resolution :

'Recognizing the importance of legal definition in the case of honey, this Association respectfully recommends the adoption of the following description as embodying the present state of our knowledge regarding Canadian Honeys.

'Honey is entirely the product of the work of bees (*Apis Mellifica*) operating upon the nectar of flowers, and other saccharine exudations of plants; and contains not more than 25 per cent of water, or more than 8 per cent of sucrose (cane sugar), nor less than 60 per cent of invert sugar. It does not give a blue colour with iodine (absence of starch syrup) nor a red colour with aniline acetate (absence of artificial invert sugar) nor a dark colour with Ley's reagent (ammoniacal silver) nor a marked precipitate of dextrin, on adding large excess of alcohol (absence of glucose syrup).'

Applying to the 145 samples sold as genuine honey, the standards suggested in the above definition of honey, it is found that seventeen samples exceed 25 per cent of water, although the excess is in most of these cases so small as to be negligible. In only one instance does it notably exceed 27 per cent (No. 39937), and in this sample it is probable that water has been added. None of the specific tests show the presence of other adulterants except in the case of No. 38760 and 37971, which give reaction for invert sugar, possibly added as such.

Section 5 of the Adulteration Act prohibits the feeding of bees with sugar, except for the purpose of being consumed by them as food; and makes the supplying of sugar to bees with intent to production of honey, a wilful adulteration of honey. Small amounts of cane sugar are found in genuine honey; but it is extremely rare to find more than 8 per cent, and the standard fixed for the United States of America makes 8 per cent of cane sugar the limit in legal honey. Elsewhere I have suggested that a limit of 10 per cent be fixed for Canada, to ensure that no genuine honey should be condemned; since it has occurred in the history of this laboratory that one or two samples of honey, believed to be genuine, have given nearly 10 per cent of cane sugar. The Ontario Bee-Keepers Association has, however, declared in favour of an 8 per cent limit for cane sugar. It will be seen that eight (8) samples of the present collection, sold as genuine honey, contain above 8 per cent of cane sugar. Of this number, two contain such large amounts, viz. 18.0 and 25.15 per cent that I am compelled to judge them adulterated, under the Act. The other six samples contain from 9.3 to 13.1 per cent cane sugar, and I have marked them as of doubtful purity, a concession which may be allowed until such time as the suggested standard of 8 per cent becomes law.

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The following synopsis of past work on honey is of interest :—

Year.	Bulletin.	Total Samples	Found Genuine.	Found Doubtful.	Found adulterated.	Sold as compound.
1897.....	47	183	164	—	19	—
1903.....	90	99	81	5	13	—
1906.....	122	54	44	—	9	1
1908.....	145	253	219	4	16	14
1908.....	148	141	135	3	2	1
1910.....	217	148	122	20	3	3

It is satisfactory to know that honey, as offered for sale in Canada, is for the most part a genuine product.

I beg to recommend the publication of this report as Bulletin No. 217.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,
Chief Analyst.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.		

DISTRICT OF NOVA SCOTIA —

1910.

June 29	Strained Honey.	42021	Shore & Campbell, 3 lbs.. Halifax, N.S.	75	L. Hill, Port Williams, N.S.	Labelled Pure..
July 5	"	42022	T. H. Brown, Halifax, 3 " .. N.S.	75	Howard Mfg. Co., Halifax, N.S.	
" 5	"	42023	City Provision Store, 3 bots. Halifax, N.S.	45	F. W. Fearman, Hamilton, Ont.	Labelled Pure..
" 5	"	42024	J. St. Clair, Coombes, 3 " .. N.S.	45	Nat. Drug and Chem. Co., Halifax, N.S.	
" 6	"	42025	Nat. Drug and Chem. 2 lbs.. Co., Halifax, N.S.	50	Robinson & Co., Il. ford, Ont.	
" 7	"	42026	Bauld Bros., Ltd., 3 bots. Halifax, N.S.	60	P. S. McGregor & Son, Kingston, N.S.	Labelled Pure..
" 7	"	42027	Brown Bros. & Co., 1½ lbs. Halifax, N.S.	35	Nat. Drug and Chem. Co., Halifax, N.S.	
" 13	"	42028	J. W. Livingstone, 3 bots. Windsor, N.S.	45	L. Hill, Port Williams, N.S.	Labelled Pure..
" 14	"	42029	W. L. Ormond, Am. 2 lbs.. herst, N.S.	40	F. W. Fearman, Hamilton, Ont.	Sold as Clover Honey.
" 14	"	42030	R. C. Fuller & Co., 3 bots. Amherst, N.S.	45	Nat. Drug and Chem. Co., St. John, N.B.	Labelled Pure White Clover.

DISTRICT OF PRINCE EDWARD ISLAND—

June 20	Strained Honey.	38755	H. J. Mabon, Souris. 3 bots.	75	Nat. Drug and Chem. Co., Halifax, N.S.	Pure Extracted Honey
" 21	"	38756	Mathew & McLean, 3 " .. Souris.	48	The Brayley Drug Co., Ltd., St. John, N.B.	Pure White Clover Honey.
" 23	"	38757	Keir & McFadyn, 3 " .. Kensington.	38	Dr. Keir, Kensington.	
" 24	"	38758	Waugh & Steeves, 3 " .. Summerside.	60	J. Johnson, Long River, P.E.I.	
" 24	"	38759	McGougan & Wright, 3 " .. Summerside.	60	A. K. Widden, North Bedeque, P.E.I.	Warranted Pure Honey.
" 29	"	38760	Sanderson & Co., 3 " .. Charlottetown.	45	.....	Upton's Pure Clarified Honey.
" 29	"	38761	W. N. Fanton, Char- 3 " .. lottetown.	45	Vendor	Warranted Pure
July 4	"	38762	L. A. Haszard, Char- 3 " .. lottetown.	45	Harold Newson, Rocky Point, P.E.I.	"
" 5	"	38763	Paul & Thompson, 3 " .. Montague.	60	Upton, Montreal...	Pure Clarified Honey.
" 5	"	38764	Mrs. D. Johnson, 3 " .. Montague.	75	The Canada Drug Co., St. John, N.B.	

DISTRICT OF NEW BRUNSWICK—

June 15	Strained Honey.	45276	W. H. Bell, St. John, 3 bots. N.B.	65	Leonard A. Hill, Port Williams, N.S.	Warranted Pure Honey.
" 16	"	45277	James Collins, St. 3 " .. John, N.B.	60	E. L. Colpitts, Petit- codiac, N.B.	Pure Honey
" 16	"	45278	W. A. Porter, St. 3 " .. John, N.B.	55	" " " "	

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STRAINED HONEY.

RESULTS OF ANALYSIS.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
Water, p.c.	Polarization at 20° C.			Cane Sugar by Clerget For- mula, p.c.	Physical Characteristics.		
	Direct.	Invert.	Differ- ence.		Colour. Granu- lation.		

R. J. WAUGH, INSPECTOR.

23.3	-11.8	-15.7	3.7	2.7	Dark straw...	None.....	42021	Genuine.
20.5	-13.6	-16.8	3.2	2.3	White.....	Complete.	42022	"
20.5	-15.9	-18.5	2.6	2.0	Light straw...	" ..	42023	"
27.0	-13.3	-14.8	1.5	1.1	" ..	None.....	42024	Water high; otherwise genuine.
21.1	-14.9	-17.3	2.4	1.8	White.....	Complete.	42025	Genuine.
24.5	-10.0	-15.1	5.1	3.8	Light brown..	None.....	42026	"
21.0	-10.3	-14.9	4.6	3.4	Light straw...	Complete.	42027	"
22.2	-10.4	-18.4	8.0	6.0	Straw	None.....	42028	"
22.7	-13.7	-18.7	5.0	3.7	White.....	Complete.	42029	"
27.4	-5.5	-19.0	13.5	10.0	Dark brown...	Slight....	42030	Water and cane sugar high; otherwise genuine.

THEO. MOORE, INSPECTOR.

27.4	-4.2	16.7	12.15	9.3	Light straw...	Partial....	38755	Water and cane sugar high; otherwise genuine.
27.5	-12.8	-18.2	5.4	4.1	" ..	" ..	38756	Water high; fermenting; otherwise genuine.
23.4	-11.9	-16.9	5.0	3.7	" ..	" ..	38757	Genuine.
23.3	-12.8	-16.0	3.2	2.3	" ..	Complete	38758	"
21.5	-14.5	-18.1	3.6	2.6	White.....	" ..	38759	"
25.0	-14.0	-17.1	3.1	2.3	Light straw..	Partial...	38760	Furfural reaction with aniline acetate; Ley's test, reddish brown; doubtful.
23.6	-14.6	-18.1	3.5	2.5	" ..	None.....	38761	Genuine.
21.7	-13.4	-18.7	5.3	4.0	" ..	Partial...	38762	"
25.0	-20.4	-23.5	3.1	2.3	Dark straw...	" ..	38763	"
28.4	-16.5	-21.6	5.1	3.8	Straw	" ..	38764	Water high; fermenting; otherwise genuine.

J. C. FERGUSON, INSPECTOR.

23.2	-12.0	-16.2	4.2	3.1	Dark straw...	None.....	45276	Genuine.
24.5	-14.4	-16.7	2.3	1.8	Light brown..	" ..	45277	"
24.1	-14.2	-16.8	2.6	2.0	Dark straw...	Complete.	45278	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.		

DISTRICT OF NEW BRUNSWICK—

1910.							
June 17	Strained Honey.	45279	G. E. Barbour Co., Ltd., St. John, N.B.	3 bots.	50	Ruthford & Marshall, Toronto, Ont.	'Gold Bond', Pure Bee's Honey.
" 24	"	45280	Geo. F. Crawford, St. Stephen, N.B.	3 " "	75	George F. Beach, Honeydale, N.S.	Pure Clover Honey.
July 5	"	45281	W. A. Estabrook, Fredericton, N.B.	3 " "	75	F. W. Fearman Co., Hamilton.	Labelled Pure Honey; vendor would not guarantee purity.
" 5	"	45282	Garden Bros., Woodstock, N.B.	2 " "	60	G. S. Peabody, Woodstock, N.B.	.....
" 19	"	45283	Sussex Mercantile Co., Ltd., Sussex, N.B.	3 " "	60	W. E. Bishop, Pleasant Vale, N.B.	Warranted Pure Honey.
" 19	"	45284	S. L. Stockton, Petitcodiac, N.B.	3 " "	65	E. L. Colpitts, Petitcodiac, N.B.	Brookside Apiary Pure Honey.
" 20	"	45285	G. O. Stratton, Moncton, N.B.	3 " "	90	Chas. E. Norton, Sunny Brae, N.B.	Warranted Pure Extracted Honey.

DISTRICT OF QUEBEC—

June 24	Strained Honey.	36433	Jos. A. Barrette, Petite Riviere.	3 bots.	60	Vendor .....	.....
" 24	"	36434	Jos. E. Rousseau, 1,289 Rue St. Valier.	3 " "	36	Chas. Gauvin, Ancienne Lorrette.	.....
" 24	"	36435	Albert Faucher, 49 Rue St. Bernard.	3 " "	60	Unknown.....	.....
" 24	"	36436	" " "	3 " "	54	" .....	.....
" 24	"	36437	Adrien Hebert, 99 Rue Acaduc.	3 " "	45	" .....	.....
" 24	"	36438	Elzear Dumontigny, 187 Rue Kironack.	3 " "	45	" .....	.....
" 24	"	36439	Alfred G. Ganon, 111 Rue St. Germain.	3 " "	60	N. Turcotte & Cie, Quebec.	.....
" 24	"	36440	Dell A. Peticlerc, 99 Rue St. Germain.	3 " "	40	W. Brunette & Cie, Quebec.	.....
" 24	"	36441	Nazaire Cote, 79 Rue St. Ambroise.	3 " "	45	Unknown.....	.....
" 24	"	36442	Hamel & Bedard, 728 Rue St. Valier.	3 " "	45	Pierre Hamel, Ancienne Lorrette.	.....

DISTRICT OF ST. HYACINTHE--

June 22	Strained Honey.	1338	G. L. Elmes, Farnham	2 lb..	36	Gunn, Langlois & Co., Montreal.	After purchase vendor stated he did not know whether sample sold was pure or not.
" 24	"	1339	Woodman & McKee, Coaticook.	1½ " "	25	" .....	.....

SESSIONAL PAPER No. 14

STRAINED HONEY.

RESULTS OF ANALYSIS.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
Water, p.c.	Polarization at 20° C.			Cane Sugar by Clerget For- mula, p.c.	Physical Characteristics.		
	Direct.	Invert.	Differ- ence.		Colour.			Granula- tion.

J. C. FERGUSON, INSPECTOR—*Concluded.*

20·2	— 8·5	—18·7	10·2	7·6	Light straw...	None.....	45279	Genuine.
25·3	—12·9	—15·0	2·1	1·6	Dark straw. .	Partial....	45280	Water high ; otherwise genu- ine.
21·4	—16·4	—18·7	2·3	1·8	Light straw...	Complete.	45281	Genuine.
23·1	—14·3	—18·1	3·8	2·8	Dark straw...	Partial....	45282	"
22·8	—14·1	—17·3	3·2	2·3	Straw.....	None.....	45283	"
25·1	— 5·6	—10·0	4·4	3·2	Light brown .	"	45284	Water high ; otherwise genu- ine.
26·2	—15·0	—18·7	3·7	2·7	Straw.....	"	45285	" "

E. BELAND, INSPECTOR.

21·4	+ 1·2	—14·6	15·8	11·8	Light straw...	None.....	36433	Cane sugar high ; otherwise genuine.
19·1	— 0·8	—14·8	14·0	10·4	White.....	Complete.	36434	" "
25·2	— 5·7	— 8·8	3·1	2·3	Dark straw...	None.....	36435	Water high ; otherwise genu- ine.
23·0	+ 2·1	—14·0	16·1	12·0	Straw.....	"	36436	Cane sugar high ; otherwise genuine.
22·1	— 6·0	—15·3	9·3	6·9	White.....	Complete.	36437	Genuine.
22·0	—15·2	—20·6	5·4	4·1	Straw.....	" ..	36438	"
19·3	— 5·0	—11·1	6·1	4·5	"	Partial....	36439	"
20·8	— 0·5	—18·1	17·6	13·1	Light straw...	None.....	36440	Cane sugar high ; otherwise genuine.
19·2	—10·6	—15·4	4·8	3·6	White.....	Complete.	36441	Genuine.
20·8	— 6·5	—14·0	7·5	5·5	"	" ..	36442	"

J. C. ROULEAU, INSPECTOR.

20·2	—11·4	—16·6	5·2	3·9	White.....	Complete.	1338	Genuine.
25·0	—17·5	—20·1	2·6	2·0	Light Straw..	Partial....	1339	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.		

DISTRICT OF ST. HYACINTHE—

1910.							
June 25	Strained Honey.	1340	L. Peloquin, St. Hyacinthe.	2 lb..	30	Stock de Daignault & Cie., St. Hyacinthe.	
" 27	" ..	1341	F. M. Chagnon, Sorel.	3 bots.	45	The T. Upton Co., Ltd., Hamilton.	Pure Clarified Honey.
" 27	" ..	1342	A. O. Comrie, St. Francois du Lac.	1½ lb..	45	Vendor	
" 30	" ..	1343	A. J. Boisvert, Ples-sisville.	25 oz..	26	Mde Vve Bedard, Lourdes.	
" 30	" ..	1344	A. W. Beausoleil, Richmond.	1½ lb..	23	Gunn, Langlois & Cie., Montreal.	
July 12	" ..	1345	Magasin Co-operatif, Thetford Mines.	2 bots.	50	Jacques Jarret, Charlesbourg.	
" 13	" ..	1346	Thos. Cameron, Lake Megantic.	2 " ..	40	.....	Upton's Pure Clarified Honey
" 19	" ..	1347	O. Huard, St. Denis River Rich.	20 oz.	13	A. Girard, St. Denis.	

DISTRICT OF MONTREAL—

June 17	Strained Honey.	39937	A. Rochon, 45 Prince Arthur E., Montreal.	3 jars.	30	.....
" 17	" ..	39938	F. Aubin & Co., St. Lawrence Market, Montreal.	3 " ..	45	Z. Limoges, Montreal.	
" 17	" ..	39939	T. Gougeon, 368 Dorchester W., Montreal.	3 " ..	45	.....	Labelled Upton's Pure Clarified Honey.
" 20	" ..	39940	J. H. Giroux, St. Agathe de Monts.	3 " ..	30	.....	Labelled Miel Canadian ; marked compound.
July 5	" ..	39941	E. P. Dame, 312 Bleury, Montreal.	3 " ..	45	J. A. Vaillancourt, Montreal.	
" 5	" ..	39942	O. Martel, 166 Dorchester W., Montreal.	3 " ..	30	J. A. Perrault Cie, Montreal.	Labelled Miel Canadian Compound.
" 13	" ..	39943	Murphy Bros., 569 St. James E., Montreal.	3 " ..	45	.....
" 20	" ..	39944	S. L. Desaulniers, 427 Notre Dame W., Montreal.	2½ lb..	25	.....	After purchase of sample vendor stated it was compound; sample from tin labelled Sirop Can. Composé.
" 21	" ..	39945	T. A. Wood & Co., 54 Aylmer st., Montreal.	3 jars.	60	Howe McIntyre Co., Montreal.	
" 21	" ..	39946	Longeway & Lewis, 305 St. Antoine, Montreal.	3 " ..	45	.....

SESSIONAL PAPER No. 14

STRAINED HONEY.

RESULTS OF ANALYSIS.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
Water, p.c.	Polarization at 20° C.			Cane Sugar by Clerget For- mula, p.c.	Physical Characteristics.		
	Direct.	Invert.	Differ- ence.		Colour.			Granula- tion.

J. C. ROULEAU, INSPECTOR—*Concluded.*

23·4	—17·2	—20·6	3·4	2·5	White.....	Complete.	1340	Genuine.
22·6	—17·0	—20·3	3·3	2·5	Dark straw..	" ..	1341	"
22·0	—10·5	—16·7	6·2	4·6	Light brown..	None.....	1342	"
24·8	—18·0	—23·5	5·5	4·1	" ..	" ..	1343	"
22·6	—15·8	—17·7	1·9	1·4	White.....	Complete.	1344	"
22·2	—4·7	—13·4	8·7	6·5	Pale straw....	None.....	1345	"
23·7	—17·9	—21·6	3·7	2·7	Light brown..	Partial....	1346	"
22·7	—15·3	—18·0	2·7	2·0	" ..	Complete.	1347	

J. J. COSTIGAN, INSPECTOR.

35·1	—15·1	—16·9	1·8	1·3	Light straw...	Partial....	39937	Water high; water probably added; adulterated.
26·0	—14·8	—19·1	4·3	3·2	" ..	None.....	39938	Water high; otherwise genuine.
23·0	—15·8	—19·6	3·8	2·8	Dark straw....	Partial....	39939	Genuine.
28·3	+109·7	+91·0	18·7	13·9	Brown.....	None.....	39940	Sold as compound; illegal.
25·3	—17·1	—20·5	3·4	2·5	Dark straw....	Partial....	39941	Water high; otherwise genuine.
25·0	+112·4	+92·6	19·8	14·8	Light brown..	None.....	39942	Sold as compound; Illegal.
28·2	—15·0	—17·7	2·7	2·0	Straw.	Partial....	39943	Water high; otherwise genuine.
26·0	+76·7	+26·5	50·2	37·5	Light brown...	None.....	39944	Sold as compound; Illegal.
25·5	—16·7	—19·4	2·7	2·0	White.....	Complete.	39945	Water high; otherwise genuine.
24·2	—14·0	—17·8	3·8	2·8	Light straw.	" ..	39946	Genuine.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.		

DISTRICT OF OTTAWA—

1910.							
June 11	Strained Honey.	43036	Allan Soper, Brockville.	3 bots.	45	J. Coon, Morton, Ont.	.....
" 15	" ..	43037	R. E. Powell, Elgin St., Ottawa.	3 "	75	Alex. McLaughlin .	Labelled pure honey.
" 15	" ..	43038	J. C. Wilson, Elgin St., Ottawa.	3 "	60	Unknown.....	.....
" 15	" ..	43039	J. H. Laishley, 51 Main St., Ottawa.	3 "	75	Anstiss & Langdon, Ottawa.	Labelled Ex-tracted Honey, W. T. Kincella, Cumberland, Ont.
" 15	" ..	43040	D. Seguin, Hull.....	3 "	75	H. N. Bate & Sons, Ottawa.	Labelled pure honey.
" 15	" ..	43041	O. Lemieux, Hull....	3 "	60	Anstiss & Langdon, Ottawa.	Labelled guaranteed pure honey, Peter Bourgeau, Luskville, P.Q.
" 15	" ..	43042	P. H. Charron, Hull .	3 "	60	Mr. Bourgeau, Mountain Road, Hull.	.....
" 15	" ..	43043	J. B. Kemp, Pembroke	3 "	45	F. J. Castle Co., Ottawa.	.....
" 25	" ..	43044	G. W. Armstrong, Cornwall.	3 "	90	J. H. Fickes, Mille Roche, Ont.	Labelled pure honey.
July 4	" ..	43045	Jas. H. Bradley, Prescott.	3 "	75	H. N. Bate & Sons, Ottawa.	.....

DISTRICT OF KINGSTON—

June 16	Strained Honey.	45736	J. Redden, Kingston.	2 lbs.	45	Robert Shannon, Battersea.	.....
" 16	" ..	45737	J. McCulla, Kingston	1½ "	45	J. Y. Parkhill, Kingston.	.....
" 17	" ..	45738	A. Glover, Kingston..	1½ "	30	E. Blain, Ltd., Toronto.	'Anchor' brand.
" 17	" ..	45739	J. Gilbert, Kingston..	1½ "	45	R. A. Marleson, Cataraqui.	.....
" 17	" ..	45740	J. Campbell, Kingston	1½ "	45	.....	Upton's pure clarified honey.
" 17	" ..	45741	E. Mullin, Kingston..	1½ "	60	Guee's, Ltd., Toronto	.....
" 20	" ..	45742	F. Perry, Napanee..	1½ "	45	Unknown.....	.....
" 21	" ..	45743	A. C. Babcock,* Lindsay.	2 "	75	W. Ryan, Toronto	.....
" 20	" ..	45744	W. Patterson, Belleville.	1½ "	45	Otron, Belleville....	.....
" 21	" ..	45745	J. Flurey, Lindsay..	2 "	45	G. Cornel, Lindsay .	.....

DISTRICT OF TORONTO—

June 18	Strained Honey.	45077	Hamilton Grocery, 124 Jas. St. North, Hamilton.	3 cans	45	Unknown.....	Vendor buys in bulk and fills his own cans.
" 21	" ..	45078	C. F. Thorne, 107 Nassau St., Toronto	3 "	45	A. Moyer, Toronto..	Labelled Pure Honey.

SESSIONAL PAPER No. 14

STRAINED HONEY.

RESULTS OF ANALYSIS.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
Water, p. c.	Polarization at 20° C.			Cane Sugar by Clerget For- mula, p. c.	Physical Characteristics.			
	Direct.	Invert.	Differ- ence.		Colour.	Granula- tion.		

J. A. RICKEY, INSPECTOR.

22.2	—12.3	—15.4	3.1	2.3	Straw	Complete.	43036	Genuine.
22.0	—15.1	—19.1	4.0	3.0	White	"	43037	"
22.3	+ 2.5	—21.7	24.2	18.0	Dark straw . . .	Slight	43038	Cane sugar high ; adulterated
22.9	—11.9	—17.9	6.0	4.5	Straw	Partial	43039	Genuine
21.7	—15.6	—19.1	3.5	2.8	Light straw . . .	None	43040	"
23.4	— 8.2	—17.9	9.7	7.2	Brown	Slight	43041	"
21.5	— 9.1	—19.8	10.7	8.0	White	Complete.	43042	"
21.9	—12.8	—18.5	5.7	4.3	Light brown . . .	Partial	43043	"
17.4	—12.0	—15.4	3.4	2.5	Straw	Complete.	43044	"
22.4	—15.1	—19.1	4.0	3.0	"	None	43045	"

JAS HOGAN, INSPECTOR.

23.8	—12.4	—16.0	3.6	2.6	Light straw . . .	Partial	45736	Genuine.
24.0	—12.8	—18.8	6.0	4.5	"	"	45737	"
25.4	—15.7	—18.0	2.3	1.8	"	"	45738	Water high, otherwise genuine
24.0	—14.0	—19.2	5.2	3.9	"	None	45739	Genuine.
24.1	—14.6	—20.8	6.2	4.6	Dark straw . . .	Partial	45740	"
22.8	—19.3	—21.6	2.3	1.8	White	Complete.	45741	"
22.9	—15.9	—19.5	3.6	2.6	"	"	45742	"
24.0	—11.5	—18.6	7.1	5.3	Dark straw . . .	Partial	45743	"
22.6	—11.6	—16.6	5.0	3.7	Light straw . . .	Complete.	45744	"
23.4	—17.9	—21.3	3.4	2.5	Straw	None	45745	"

H. J. DAGER, INSPECTOR.

22.1	—18.4	—22.0	3.6	2.6	Straw	Partial	45077	Genuine.
21.5	—18.3	—21.7	3.4	2.5	Dark straw . . .	None	45078	"

14—15½

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.		

DISTRICT OF TORONTO—

1910.							
June 29	Strained Honey.	45079	Bruce & Sanderson, 377, 379 Parliament St., Toronto.	3 Cans	60	John J. Fee, Toronto	Labelled Pure Honey.
July 4	" ..	45081	E. B. Farewell, Orillia	3 " ..	45	Geo. Laing, Milton..	Warranted Pure Honey.
" 5	" ..	45082	R. W. Armstrong, Bracebridge.	3 " ..	45	Isaac Langstroth, Arkona.	Vendor buys in bulk and fills his own cans.
" 8	" ..	45083	M. Pearce, Parry Harbour.	3 " ..	75	Rutherford & Marshall Co., Toronto.	Guaranteed Pure Honey.
" 8	" ..	45084	J. H. Badger, Parry Sound.	3 " ..	50	Eby Blain, Ltd., Toronto.	'Anchor' Brand Pure White Clover Honey.

DISTRICT OF LONDON—

July 23	Strained Honey.	44602	Chas. S. Andrews, Seaforth.	2 lbs..	30	W. D. Hoag, Seaforth.	.....
" 23	" ..	44607	Mathew Williams, Seaforth.	1½ " ..	25	William Hastings, Seaforth.	.....
" 26	" ..	44609	Geo. McLennon, Clinton.	3 " ..	30	Alex. Smith, Kippen, Ont.	.....
June 25	" ..	44755	J. F. Clifton, Alliston	3 bots.	45	Jas. Lumbers, Toronto.	.....
" 27	" ..	44759	Jackson & Son, Guelph	3 tins.	30	Unknown..	.....
" 28	" ..	44765	Barnsdale Trading Co., Stratford.	3 bots.	36	Wm. Morden, Downey Township.	.....
July 13	" ..	44775	James Cutt, Blythe, Ont.	1 lb..	12	James Dobie, Auburn.	.....
" 13	" ..	44777	T. W. Scott, Blythe, Ont.	3 p ts.	40	Unknown .....	.....
" 14	" ..	44781	Robert Johnston, Wingham.	3 " ..	60	Eby Blain & Co., Toronto.	.....
" 19	" ..	44788	Pickard & Fleming, St. Marys.	2 jars.	45	Edward Adams, London, Ont.	.....
" 20	" ..	44795	Thos. Jones, Mitchell.	3 pots.	45	W. H. Gillard & Co., Hamilton.	.....

DISTRICT OF WINDSOR—

June 21	Strained Honey.	42326	J. J. Foster, Leamington.	3 bots.	45	Upton's Hamilton ..	Labelled Upton's Hamilton.
" 22	" ..	42331	Jno. McCorrie & Son, Chatham.	3 jars.	30	W. A. Chrysler, Chatham.	Warranted pure honey.
" 24	" ..	42334	W. Teeple, London ..	3 " ..	45	Flavelle Silverwood, Ltd., London.	Labelled guaranteed pure honey
" 24	" ..	42337	T. A. Rowat, London South.	3 " ..	50	W. Coleman, Birr...	.....
" 25	" ..	42339	A. R. Bong, London South.	3 " ..	45	Upton, Hamilton....	Labelled Upton's pure Clover Honey.
" 27	" ..	42341	F. C. Toon, London..	3 " ..	45	Unknown.....	.....

SESSIONAL PAPER No. 14

STRAINED HONEY.

RESULTS OF ANALYSIS.						No. of Sample.	Remarks and Opinion of the Chief Analyst.	
Water, p.c.	Polarization at 20° C.			Cane Sugar by Clerget For- mula, p.c.	Physical Characteristics.			
	Direct.	Invert.	Differ- ence.		Colour.			Granula- tion.

H. J. DAGER, INSPECTOR—*Concluded.*

21·7	—15·1	—18·0	2·9	2·1	Straw... ..	None.....	45079	Genuine.
23·4	—16·1	—19·8	3·7	2·7	"	"	45081	"
20·9	—14·4	—20·3	5·9	4·4	Light straw...	Slight.....	45082	"
22·2	—10·8	—19·5	8·7	6·5	"	"	45083	"
22·3	—19·4	—22·6	3·2	2·3	Straw.....	None... ..	45084	"

T. KIDD, INSPECTOR.

21·5	—15·0	—19·8	4·8	3·6	Light straw...	Slight... ..	44602	Genuine.
21·5	—18·2	—21·2	3·0	2·2	Straw.....	None.....	44607	"
23·2	—15·0	—18·8	3·8	2·8	"	"	44609	"
21·1	—16·0	—20·5	4·5	3·3	"	"	44755	"
19·7	—18·5	—21·0	2·5	1·9	Light straw...	Slight... ..	44759	"
24·0	—15·0	—18·3	3·3	2·5	"	"	44765	"
20·9	—15·1	—20·4	5·3	4·0	"	None.....	44775	"
20·8	—19·1	—20·7	1·6	1·2	White.... ..	Complete.	44777	"
19·7	—17·6	—22·4	4·8	3·6	Straw	Partial...	44781	"
22·7	—17·1	—19·2	2·1	1·6	Light straw...	"	44788	"
20·6	—10·5	—19·8	9·3	6·9	Dark straw. .	None...	44795	"

JNO. TALBOT, INSPECTOR.

22·5	—13·8	—19·0	5·2	3·9	Straw.....	Partial...	4232	Genuine.
21·6	—13·1	—18·4	5·3	4·0	"	None.....	42331	"
24·2	—16·0	—18·7	2·7	2·0	"	Partial....	42334	"
22·5	—12·4	—16·4	4·0	3·0	White.....	Complete.	42337	"
22·5	—13·8	—19·9	6·1	4·5	Straw.....	Partial..	42339	"
24·0	—16·9	—20·5	3·6	2·7	White.....	Complete.	42341	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expres- sion of opinion).
				Quantity.	Cents.		
DISTRICT OF WINDSOR—							
1910.							
June 27	Strained Honey.	42346	Thos. W. Sanborne & Son, London.	3 jars.	45	F. J. Miller, London	'Crest' Brand Honey from Vauxhall Apiaries, London.
" 27	"	42349	H. Geach, London...	3 "	45	" "	Labelled Choice extracted Honey, Vauxhall Apiaries, London.
" 28	"	42420	Duncan Bros., London	3 "	40	Unknown.....	
" 28	"	42424	Fulcher & Northmore, London.	3 "	45	Upton's, Hamilton..	
DISTRICT OF MANITOBA—							
June 20	Strained Honey.	43521	F. Fawley, 1,084 Main St., Winnipeg.	3 pkgs	75	Foster & Holferman, Brantford, Ont.	Extracted honey
" 20	"	43522	Coyle Bros., Winnipeg	3 "	60	G. A. Deadman, Brussels, Ont.	Deadman's pure honey.
" 21	"	43523	P. H. Menlove, Main St. N., Winnipeg.	3 "	75	G. F. & J. Galt, Manitoba.	Pure strained White Clover Honey.
" 21	"	43524	Templeton & Co., 1,028 Main St. N., Winnipeg.	3 "	60	Unknown.....	
" 21	"	43525	Moffett & Douglas, Selkirk Ave., Winnipeg.	3 "	60	.....	Upton's pure Clover Honey.
" 22	"	43526	H. Slasor, Main St., Winnipeg.	3 "	60	Jabin Marrin Co., Ltd., Winnipeg.	
" 27	"	43527	G.T. Hoyes, Elmwood	3 "	75	.....	Upton's pure Clover Honey.
" 27	"	43528	J. G. McGrath, Elmwood.	3 "	75	Bright, Emery Co., Winnipeg.	Ontario Clover Honey.
" 28	"	43529	J. Paterson, Winnipeg	3 "	75	The White Star Mfg. Co., Winnipeg.	White Star Honey.
" 28	"	43530	Heaney Bros., Portage Ave., Winnipeg.	3 "	75	Foster & Holterman, Portage Ave., Winnipeg.	
DISTRICT OF CALGARY—							
July 5	Strained Honey.	43771	Craddock & Viner, Lethbridge.	3 bots.	1.35	Pacific Coast Syrup Co., San Francisco, Cal.	
" 13	"	43772	R. Dunn, Medicine Hat.	2 "	1.00	Codville Co., Ltd., Winnipeg.	
" 13	"	43773	The D. Milne Co., Ltd., Medicine Hat.	3 jars.	75	F. W. Fearman, Hamilton, Ont.	
" 22	"	43774	J. T. Macdonald, Calgary.	3 bots.	75	T. Upton, Ltd, Hamilton, Ont.	
" 22	"	43775	Speer Bros., Calgary.	3 "	75	" "	
Aug. 8	"	43776	C. E. Compton, Wetaskiwin.	3 "	75	Balfour Smyth, Hamilton, Ont.	

SESSIONAL PAPER No. 14

STRAINED HONEY.

RESULTS OF ANALYSIS.						No. of Sample.	Remarks and Opinion of the Chief Analyst.	
Water, p. c.	Polarization at 20° C.			Cane Sugar by Clerget For- mula, p. c.	Physical Characteristics.			
	Direct.	Invert.	Differ- ence.		Colour.			Granula- tion.

JNO. TALBOT, INSPECTOR—*Concluded.*

23·0	—12·1	—17·3	5·2	3·9	Straw	None	42346	Genuine.
23·3	—12·7	—17·6	4·9	3·7	"	"	42349	"
24·8	—11·8	—16·3	4·5	3·3	Light straw . . .	"	42420	"
22·8	—13·3	—19·5	6·2	4·1	"	Partial	42424	"

A. C. LARIVIERE, INSPECTOR.

21·1	—16·9	—19·6	2·7	2·0	White	Complete	43521	Genuine.
21·4	—14·1	—21·0	6·9	5·1	Light straw . . .	None	43522	"
23·2	—17·6	—23·8	6·2	4·6	Dark straw . . .	"	43523	"
20·9	—17·0	—20·9	3·9	2·9	White	Complete	43524	"
21·7	—16·2	—20·0	3·8	2·8	"	Partial	43525	"
20·4	—18·2	—20·9	2·7	2·0	Light straw . . .	Complete	43526	"
21·4	—14·8	—19·5	4·7	3·5	Straw	Slight	43527	"
26·1	+13·5	—20·2	33·7	25·15	Light straw . . .	None	43528	Water and cane sugar content high. Adulterated.
22·7	—7·7	—15·8	8·1	6·0	Dark straw . . .	"	43529	Genuine.
21·8	—16·3	—19·8	3·5	2·8	White	Complete	43530	"

R. W. FLETCHER, INSPECTOR.

22·6	—16·3	—24·6	8·3	6·2	Straw	None	43771	Genuine.
21·7	—17·5	—21·6	4·1	3·1	White	Complete	43772	"
22·1	—16·2	—19·0	2·8	2·1	Light straw . . .	"	43773	"
24·7	—17·8	—21·2	3·4	2·5	White	Partial	43774	"
22·0	—14·8	—19·1	4·3	3·2	"	"	43775	"
23·0	—15·3	—21·2	5·9	4·4	Dark straw . . .	None	43776	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.		

DISTRICT OF CALGARY—

1910.							
Aug. 9	Strained Honey.	43777	Douglas Bros., Ltd., Edmonton.	3 jars.	75	Mrs. Thos. Hender son, Strathcona, Alta.	.....
" 9	" ..	43778	A. H. Rickards & Co., Strathcona.	3 bots.	75	T. Upton & Co., Ltd., Hamilton, Ont.	.....
" 10	" ..	43779	Aitken Bros., Edmonton.	3 " .	75	O. L. Charlton Co., Vancouver, B.C.	... ..
" 10	" ..	43780	Hallier & Aldridge, Edmonton.	3 " .	75	T. Upton & Co., Ltd., Hamilton, Ont.	.....

DISTRICT OF VANCOUVER—

June 21	Strained Honey.	37971	J. Jackson, Haney, B.C.	3 jars.	75	O. L. Charlton, Vancouver, B.C.	'Nectar' brand, Guaranteed Strictly Pure.
" 21	" ..	37972	Coulter & Berry, Langley, B.C.	3 " .	75	John Wilson, Langley Prairie.	.....
" 23	" ..	37973	E. S. McBride, Port Guichon.	3 " .	75	L. Guichon Estate..	Guaranteed pure
" 23	" ..	37974	W. T. Walker, Steveston, B.C.	3 " .	1.05	Bishop & Co., U.S..	Pure Honey
" 23	" ..	37975	Georgia Grocery, Vancouver, B.C.	3 " .	1.05	Pacific Coast Syrup Co.	'Wild Rose' brand.
July 18	" ..	37976	H. A. Edgett & Co., Vancouver, B.C.	3 bots.	75	Vendors.....	Pure Honey....
" 18	" ..	37977	Geo. Wagg, Vancouver.	3 " .	60	Jarcia & Maggini, San Francisco.	.....
" 18	" ..	37978	Wm. Clark, Vancouver.	3 " .	75	Seattle & Puget Sound Packing Co.	'Liberty' brand pure Honey.
" 18	" ..	37979	Foran Bros., Vancouver.	3 " .	75	Unknown ....	.....
" 18	" ..	37980	Woodwards Dept. Store, Vancouver, B.C.	3 " .	1.05	Chas. Heaton & Co., London.	Pure Honey

DISTRICT OF VICTORIA—

June 20	Strained Honey.	44897	Windsor Grocery Co., Victoria.	3 jars.	1 05	Pacific Coast Syrup Co., San Francisco, Cal.	'Wild Rose' brand.
" 20	" ..	44898	The Saunders Grocery Co., Victoria.	3 " .	75	Bishop & Co., San Francisco, Cal.	Bishop's Californian pure honey
" 21	" ..	44899	H. O. Kirkham, Victoria.	3 " .	75	O. L. Charlton, Victoria, B.C.	Californian Honey.
" 22	" ..	44900	Wm. B. Hall, Victoria	3 " .	60	T. B. Pearson, Linden Apiary, Victoria, B.C.	.....
" 22	" ..	44901	Copas & Young, Victoria.	3 " .	75	Balfour, Smye & Co., Hamilton.	Put up in jars by vendor.
" 23	" ..	44902	F. E. Plummer, Victoria.	3 " .	75	O. L. Charlton, Vancouver, B.C.	'Nectar' brand Chilliwack Honey.
" 24	" ..	44903	Erskine & Co., Victoria.	3 " .	75	" " ..	.....
" 27	" ..	44904	D. H. Ross & Co., Victoria.	3 " .	60	Balfour, Smye & Co., Hamilton, Ont.	Put up in jars by vendor.
" 28	" ..	44905	Woods & White, Victoria.	3 " .	75	O. L. Charlton, South Vancouver, B.C.	Best Australian Honey.
" 28	" ..	44906	Scott & Peden, Victoria.	3 " .	75	O. L. Charlton, Victoria, B.C.	Pure Honey.

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STRAINED HONEY.

RESULTS OF ANALYSIS.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
Water, p.c.	Polarization at 20° C.			Cane Sugar by Clerget Formula, p.c.	Physical Characteristics.			
	Direct.	Invert.	Difference.		Colour.	Granulation.		
R. W. FLETCHER, INSPECTOR— <i>Concluded.</i>								
22·0	—14·1	—19·0	4·9	3·7	Straw	None	43777	Genuine.
23·1	—15·2	—21·3	6·1	4·5	"	Partial	43778	"
25·7	—19·6	—23·2	3·6	2·6	Dark straw . . .	None	43779	Water high, otherwise genuine
22·0	—13·8	—21·4	7·6	5·5	Light straw . . .	Slight	43780	Genuine.
J. F. POWER, INSPECTOR.								
22·3	—17·8	—21·2	3·4	2·5	Light brown . .	None	37971	Furfural reaction with aniline acetate, Ley's test, reddish brown. Doubtful.
21·4	— 6·3	—11·4	5·1	3·8	Straw	"	37972	Genuine.
21·3	—15·9	—19·4	3·5	2·5	White	Complete . . .	37973	"
21·4	—18·9	—24·2	5·3	4·0	Dark straw . . .	Partial	37974	"
21·8	—18·3	—26·2	7·9	5·8	Straw	None	37975	"
23·3	—17·8	—23·4	5·6	4·2	Light straw . . .	Complete . . .	37976	"
21·7	—12·6	—24·2	11·6	8·6	"	"	37977	"
24·8	—11·9	—22·4	10·5	7·8	"	Partial	37978	"
23·3	—17·8	—22·8	5·0	3·7	Dark straw . . .	"	37979	"
25·0	—13·2	—17·6	4·4	3·3	"	"	37980	"
D. O'SULLIVAN, INSPECTOR.								
21·7	—13·6	—23·9	10·3	7·7	Straw	None	44897	Genuine.
19·5	—15·5	—23·4	7·9	5·8	"	"	44898	"
22·6	—19·5	—26·8	7·3	5·4	Light straw . . .	"	44899	"
19·5	—10·2	—13·9	3·7	2·7	"	Complete . . .	44900	"
18·7	—18·6	—21·9	3·3	2·4	Light brown . .	Partial	44901	"
24·1	—18·5	—23·6	5·1	3·8	Straw	None	44902	"
21·2	—20·2	—23·3	3·1	2·3	Dark straw . . .	Slight	44903	"
21·3	—21·8	—27·9	6·1	4·5	White	Complete . . .	44904	"
21·5	—19·7	—25·5	5·8	4·3	Straw	None	44905	"
22·1	—15·8	—20·5	4·7	3·5	Light straw . . .	"	44906	"

APPENDIX M.

BULLETIN No. 218—ICE CREAM.

OTTAWA, November 17, 1910.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR,—I have the honour to send you herewith a report upon one hundred and thirty samples of Ice Cream, collected in thirteen of the inspectoral Districts of Canada, during September and October last.

The following definitions and standards for Ice Cream are now made legal in consonance with section 26 of the Adulteration Act.

1. *Ice Cream* is a frozen product, made from cream and sugar, with or without harmless flavouring and colouring materials, and with or without gelatin, gum tragacanth, or other harmless stiffening materials, in amount less than two (2) per cent, and contains not less than fourteen (14) per cent of milk fat.

2. *Fruit Ice Cream* is a frozen product, made as described under Ice Cream, but containing sound, clean, and mature fruit. It must contain not less than twelve (12) per cent of milk fat.

3. *Nut Ice Cream* is a frozen product, made as described under Ice Cream, but containing sound, non-rancid nuts. It must contain not less than twelve (12) per cent of milk fat.

It is undeniably a fact that the most essential and costly constituent of ice-cream is the actual cream therein contained. This is at the same time the most nutritive component of the food stuff, and is the prime consideration in virtue of which physicians prescribe ice-cream as an important article of diet in many cases of convalescence. It seems just, that a minimum amount of milk fat should be required by law to be present in ice cream ; and the report now submitted, together with previous reports (See Bulletins 162 and 190) serves to show that 14 per cent of milk fat is a reasonable demand. The sale of an ice cream having a lower content of milk fat, is not illegal, provided that the article is sold with a true statement, by label or otherwise, of its actual fat content.

This reading may, I believe, be correctly inferred from the definition of cream, where it is expressly stated that ;— ‘Cream when guaranteed to contain another percentage of milk fat than 18 per cent, must conform to such guarantee.’

The present report may be summarized as follows :—

Samples not analysed for reasons given.....	5
" fully up to or above standard.....	77
" nearly up to standard.	11
" below standard of 14 p. c.....	31
" greatly below standard	6
Total	130

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It thus appears that 88 samples, or 70 per cent of those analysed, reached the standard of 14 per cent.

In August, 1908, (Bull. 162), out of 80 samples analysed, 40 samples or 50 per cent of the collection, reached this standard of 14 per cent milk fat. In August, 1909, (Bull. 190), out of 129 samples of ice cream, 78 samples or 60 per cent.

SUMMARY.

Inspection of Ice Cream.	August, 1908.	August, 1909.	Sept., 1910.
Total number analysed.....	80	129	125
Up to standard.....	40	78	88
Percentage of collection.....	50	60	70

It thus appears that there has been a very marked improvement in the quality of Canadian Ice Cream during the past two years. A careful examination of the accompanying report shows that the better grades of ice cream contain above 20 per cent of milk fat; some of them reaching nearly 30 per cent.

Standards for Ice Cream come into force (under section 26 of the Adulteration Act) on the 12th December of this year.

For the reason that these standards were not effective at the time of collection of the samples herein reported, I have considered it unnecessary to describe any of them as adulterated; but careful inspection of the tables will show that several samples are of very poor quality.

I beg to recommend the publication of this report as Bulletin No. 218.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,
Chief Analyst.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA—

1910.							
Oct.	6	Ice Cream..	42101 D. R. Ross, Halifax, N.S.	1 qt. .	40	Vendor.....	.....
"	6	" ..	42102 " " ..	1 " ..	40	" .....	.....
"	6	" ..	42103 Scotia Pure Milk Co., Halifax, N.S.	1 " ..	35	" .....	.....
"	6	" ..	42104 " " ..	1 " ..	35	" .....	.....
"	6	" ..	42105 " " ..	1 " ..	35	" .....	.....
"	6	" ..	42106 Wm. Patrick....	1 " ..	50	" .....	.....
"	6	" ..	42107 "	1 " ..	50	" .....	.....
"	7	" ..	42108 Teas & Co.....	1 " ..	40	" .....	.....
"	7	" ..	42109 "	1 " ..	40	" .....	.....
"	7	" ..	42110 Miss Albro, (Colonial Tea Room, Halifax, N.S.	1 " ..	50	D. R. Ross, Hali- fax.	Manufacturer... ..
"	7	" ..	42111 C. H. Ward, Halifax, N.S.	1 " ..	50	Scotia Pure Milk Co., Halifax.	"
"	7	" ..	42112 P. Settle, Dartmouth, N.S.	1 " ..	50	" " ..	F. Dares, Dart- mouth.
"	7	" ..	42113 Miss Walker, Dartmouth, N.S.	1 " ..	50	" " ..	Manufacturers....

DISTRICT OF PRINCE EDWARD ISLAND—

Sept.	22	Ice Cream..	45911 Jas. Dougherty & Co., Charlottetown.	1 qt. .	50	Vendors.....	.....
"	22	" ..	45912 Sam. Hollett, Charlotte- town.	1 " ..	45	Vendor.....	.....
"	22	" ..	45913 Norman Brown, Char- lottetown.	1 " ..	45	" .....	.....
"	22	" ..	45914 E. J. DesRoches, Char- lottetown.	1 " ..	50	" .....	.....
"	22	" ..	45915 J. Vatcher, Charlottetown	1 " ..	50	" .....	.....
"	22	" ..	45916 Mrs. W. F. Carter, Char- lottetown.	1 " ..	50	" .....	.....
"	23	" ..	45917 M. C. Martin, Kensington	1 " ..	45	M. Martin..	.....
"	24	" ..	45918 J. H. Lock, Summerside.	1 " ..	35	Vendor.
"	24	" ..	45919 E. A. Burt, Summerside.	1 " ..	40	"
"	24	" ..	45920 F. Mason, Charlottetown.	1 " ..	38	"

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ICE CREAM.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Non-fat Solids.	Total Solids.	Fat.	Thickeners.		

R. J. WAUGH, INSPECTOR.

	p. c.	p. c.	p. c.			
Vanilla.....	18·80	31·25	12·45	.....	42101	Fat below standard.
Strawberry.....				.....	42102	No report.*
Vanilla.....	15·69	24·56	8·87	Gelatine.....	42103	Fat below standard.
Peach....	18·11	29·11	11·00	.....	42104	"
Strawberry.....	17·18	30·58	13·40	.....	42105	"
Pine Apple.....	18·32	40·52	22·20	... ..	42106	Up to standard in fat.
Chocolate.....	21·63	36·51	14·88	Starch.....	42107	"
Vanilla.....	19·84	27·17	7·33	Gelatine.....	42108	Fat much below standard.
Ginger.....	21·16	28·98	7·82	"	42109	"
Strawberry... ..	20·01	33·15	13·14	... ..	42110	Fat slightly below stan- dard.
"	17·19	32·52	15·33	Gelatine.....	42111	Up to standard in fat.
Vanilla.....	15·92	24·82	8·90	"	42112	Fat below standard.
Strawberry.....	16·97	30·15	13·18	"	42113	"

THEO. MOORE, INSPECTOR.

.....	13·19	25·87	11·68	.....	45911	Fat below standard.
.....	20·10	22·38	2·28	.....	45912	Fat much below standard.
.....	21·32	23·90	2·58	Gelatine.....	45913	"
.....	15·39	24·92	9·53	.....	45914	Fat below standard.
.....	14·06	30·80	16·74	.....	45915	Up to standard in fat.
.....	16·01	34·41	18·40	Starch.....	45916	"
.....	17·07	29·50	12·43	... ..	45917	Fat below standard.
.....	16·88	30·70	13·82	.....	45918	Fat slightly below stan- dard.
.....	15·59	26·72	11·13	.....	45919	Fat below standard.
... ..	17·73	27·45	9·72	.....	45920	"

* Both samples broken in transit.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NEW BRUNSWICK—

1910.							
Sept. 22	Ice Cream..	45339	R. H. Cotter, St. John, N.B.	1 qt..	40	Vendor.....	
" 22	" ..	45340	T. J. Phillip, St. John, N.B.	1 " ..	40	"	
" 22	" ..	45341	A. W. Baird, St. John, N.B.	1 " ..	40	Maritime Dairy Co. Sussex, N.B.	
" 23	" ..	45342	J. S. Vincent, (White Catering Co.) St. John, N.B.	1 " ..	50	Vendor.....	
" 23	" ..	45343	G. D. Wannamaker, St. John, N.B.	1 " ..	50	"	
" 23	" ..	45344	A. J. Tufts, St. John, N.B.	1 " ..	60	"	
Oct. 4	" ..	45345	Lloyd W. Vanwart, Fredericton, N.B.	1 " ..	50	"	
" 5	" ..	45346	R. E. Holyoke, Woodstock, N.B.	1 " ..	40	"	
" 17	" ..	45347	Maritime Dairy Co., Ltd., Sussex, N.B.	1 " ..	50	Vendors.....	
" 24	" ..	45348	The Royal Fruit & Confectionery Co., St. John, N.B.	1 " ..	50	"	

DISTRICT OF QUEBEC—

Sept. 7	Ice Cream..	36463	Octave Vezina & Cie., 460 Rue St. Joseph, Quebec	6gls's.	30	Vendors....	
" 7	" ..	36464	Clement Fackini, 785 Rue St. Valier, Quebec.	7 " .	35	Vendor.....	
" 7	" ..	36465	" " ..	7 " .	35	"	
" 7	" ..	36466	Edouard Boilard, 836 Rue St. Valier, Quebec.	6 " .	30	"	
" 7	" ..	36467	Geo. Jobin, 380 Rue St. Joseph, Quebec.	6 " .	30	"	
" 8	" ..	36468	Jos. Vaillancourt, 348 Rue St. Joseph, Quebec.	6 " .	30	"	
" 8	" ..	36469	Wilfred Hamelin, 300 Rue St. Joseph, Quebec.	6 " .	30	"	
" 8	" ..	36470	Jos. Lauson, 269 Rue St. Joseph, Quebec.	6 " .	30	"	
" 8	" ..	36471	Feharos & Parjarts, 264½ Rue St. Joseph, Quebec	6 " .	30	Vendors.....	
" 8	" ..	36472	P. Demètre, 74 Rue St. Jean, Quebec.	6 " .	30	Vendor.	

DISTRICT OF ST. HYACINTHE—

Sept. 20	Ice Cream.	41053	G. A. McLean, Sherbrooke	1 qt..	50	Vendor.....	
" 20	" ..	41054	Roomanos & Alexander Bros., Sherbrooke.	1 " ..	50	Vendors.....	
" 20	" ..	41055	M. E. Woodard, Sherbrooke.	1 " ..	50	Vendor.....	
" 20	" ..	41056	Boutraes & Shamyeh, Wellington St., Sherbrooke.	1 " ..	50	Vendors... ..	

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ICE CREAM.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Non-fat Solids.	Total Solids.	Fat.	Thickeners.		

J. C. FERGUSON, INSPECTOR.

	p. c.	p. c.	p. c.			
.....	14.32	37.22	22.90	.....	45339	Up to standard in fat.
.....	26.96	34.87	7.91	.....	45340	Fat below standard.
.....	18.98	38.10	19.12	.....	45341	Up to standard in fat.
Strawberry.....				.....	45342	No report.*
.....	22.17	31.71	9.54	Starch.....	45343	Fat below standard.
Vanilla	18.13	33.18	15.05	Gum Tragacanth..	45344	Up to standard in fat.
Small amounts of gelatine added.	21.63	38.40	16.77	Gelatine.....	45345	"
.....	19.35	40.67	21.32	.....	45346	"
Vanilla.....	16.22	36.23	20.01	.....	45347	"
Strawberry.....	15.47	35.65	20.18	.....	45348	"

E. BELAND, INSPECTOR.

.....	15.52	32.20	16.68	Gelatine.....	36463	Up to standard in fat.
.....	21.21	25.86	4.65	.....	36464	Fat much below standar
.....	24.50	36.16	11.66	.....	36465	Fat below standard.
.....	23.05	32.13	9.08	.....	36466	"
.....	19.55	29.87	10.32	.....	36467	"
.....	23.74	35.16	11.42	.....	36468	"
.....	23.62	53.06	29.41	.....	36469	Up to standard in fat.
.....	23.53	37.11	13.58	.....	36470	Fatslightly below standard
.....	18.13	34.77	16.64	.....	36471	Up to standard in fat.
.....	20.82	34.18	13.36	.....	36472	Fatslightly below standard

J. J. COSTIGAN, ACTING INSPECTOR.

.....	18.41	34.87	16.46	Starch and Gum Tragacanth.	41053	Up to standard in fat.
.....	17.30	32.04	14.74	.....	41054	"
.....	19.33	35.40	16.07	.....	41055	"
.....	18.59	36.14	17.55	.....	41056	"

* Bottle samples fermented and spoiled in transit or in storage.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF ST. HYACINTHE—

1910.							
Sept. 20	Ice Cream..	41057	G. Panos, Sherbrooke....	1 qt..	40	Vendor.....	
" 20	" ..	41058	J. E. Jannelle, Richmond, P.Q.	1 " ..	50	"	
" 20	" ..	41059	George Baril, Richmond, P.Q.	1 " ..	50	"	
Oct. 4	" ..	41060	Xenos & Xenos, Granby, P.Q.	1 " ..	30	Vendors....	
" 4	" ..	41061	Vasillon Bros., Granby, P.Q.	1 " ..	40	"	
" 10	" ..	41062	Daignault & Cie, St. Hyacinthe.	1 " ..	50	"	

DISTRICT OF MONTREAL—

Sept. 14	Ice Cream..	40729	Standard Dairy Co., LagauchetiereSt., Montreal	1 qt..	50	Vendors	
" 14	" ..	40730	W. J. Logan, 214 Sherbrooke St., Montreal.	1 " ..	50	Vendor.....	
" 14	" ..	40731	Jno. D. Duncan Co., 218 Mountain St., Montreal	1 " ..	60	Vendors.....	
" 14	" ..	40732	Imperial Ice Cream Co., Britannia St., Montreal.	1 " ..	40	"	
" 16	" ..	40733	Montreal Dairy Co., 315 Lagauchetiere St., Montreal.	1 " ..	25	"	
" 22	" ..	40734	C. Gladionos, 807 St. Lawrence B., Montreal	1 " ..	50	Vendor.....	
" 22	" ..	40735	Poulos & Rometus, 464 St. Denis St., Montreal.	1 " ..	50	Vendors....	
" 22	" ..	40736	John Grevakos, 461 Ontario E., Montreal	1 " ..	40	Vendor.....	
" 22	" ..	40737	W.Scott, 726 St.Catherine E., Montreal.	1 " ..	50	"	
" 22	" ..	40738	Jos. Gallo, 406 St. Catherine E., Montreal.	1 " ..	40	"	

DISTRICT OF OTTAWA—

Sept. 13	Ice Cream..	43141	Jos. Seguin, Vankleek Hill.	1 qt..	50	Ottawa Dairy Co., Ottawa.	Manufacturers ...
" 14	" ..	43142	Mrs. Laurie, Perth, Ont.	1 " ..	50	Vendor	
" 14	" ..	43143	Wm. Anderson, Perth, Ont.	1 " ..	50	"	
" 15	" ..	43144	T. D. Sayer, Aylmer Park, P.Q.	1 " ..	50	"	
" 15	" ..	43145	C. H. Roger, Brittannia, Ont.	1 " ..	50	"	
" 16	" ..	43146	T. Burns, Sparks St., Ottawa.	1 " ..	50	Ottawa Dairy Co., Ottawa.	Manufacturers....
" 16	" ..	43147	W. Nixon, Sparks St., Ottawa.	1 " ..	50	Vendor	
" 16	" ..	43148	W. A. Henderson, Drug-gist, Ottawa.	2 bks.	50	Ottawa Dairy Co., Ottawa.	Manufacturers.. .
" 16	" ..	43149	Ottawa Dairy Co., Ottawa	1 qt..	50	"	
" 20	" ..	43150	S. Whitney, Prescott	1 " ..	50	Vendor	

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ICE CREAM.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Non-fat Solids.	Total Solids.	Fat.	Thickeners.		

J. J. COSTIGAN, ACTING INSPECTOR—*Concluded.*

	p. c.	p. c.	p. c.			
.....	15 25	34 06	18 81	.....	41057	Up to standard in fat
.....	18 30	38 20	19 90	.....	41058	"
.....	18 13	36 05	17 92	.....	41059	"
.....	21 80	34 01	12 21	.....	41060	Fat below standard.
.....	14 59	34 41	19 82	.....	41061	Up to standard in fat.
.....	27 37	41 17	13 80	.....	41062	Fatslightly below standard

J. J. COSTIGAN, INSPECTOR.

.....	16 59	33 06	16 47	.....	40729	Up to standard in fat.
.....	21 18	40 88	19 70	.....	40730	"
.....	20 90	41 52	20 62	Gelatine.....	40731	"
.....	16 84	36 75	19 91	Small amt. gelatine	40732	"
.....	22 82	38 15	15 33	Starch.....	40733	"
.....	19 28	35 06	15 78	.....	40734	"
.....	20 46	39 86	19 40	.....	40735	"
.....	21 17	34 24	13 07	.....	40736	Fatslightly below standard
.....	18 27	35 42	17 15	.....	40737	Up to standard in fat.
.....	20 94	39 54	18 60	Gum tragacanth..	40738	"

J. A. RICKEY, INSPECTOR.

.....	19 45	36 42	16 97	Gelatine.....	43141	Up to standard in fat.
.....	25 46	32 58	7 12	.....	43142	Fat much below standard.
.....	20 69	30 77	10 08	Starch... ..	43143	Fat below standard.
.....	25 94	35 00	9 06	.....	43144	"
.....	20 99	38 69	17 70	.....	43145	Up to standard in fat.
.....	18 05	37 11	19 06	Gelatine	43146	"
.....	19 21	39 09	19 88	.....	43147	"
.....	19 24	36 70	17 46	Gelatine†.....	43148	"
.....	18 31	34 75	16 44	"	43149	"
.....	18 47	26 67	8 20	Starch.....	43150	Fat below standard.

† Contains nuts and strawberry pulp.
14—16

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF KINGSTGN—

1910.							
Oct.	4	Ice Cream .	46534 H. L. Prince, Kingston..	1 qt..	50	Vendor .....	.....
"	4	" ..	46535 F. Hoag, Kingston	1 " ..	50	" .....	.....
"	4	" ..	46536 Geo. Masoud, Kingston..	1 " ..	50	" .....	.....
"	4	" ..	46537 T. Sakell, Kingston ...	1 " ..	50	" .....	.....
"	4	" ..	46538 M. P. Pappas, Kingston.	1 " ..	35	" .....	.....
"	4	" ..	46539 W. H. Pritshard, Kings- ton.	1 " ..	40	" .....	.....
"	4	" ..	46540 J. Lackie, Kingston.. ...	1 " ..	50	" .....	.....
"	4	" ..	46541 G. W. Mahood, Kingston	1 " ..	50	" .....	.....
"	4	" ..	46542 N. R. Grimms, Kingston.	1 " ..	40	" .....	.....
"	4	" ..	46543 A. J. Rees, Kingston....	1 " ..	50	" .....	.....

DISTRICT OF TORONTO—

Sept.	21	Ice Cream..	45189 J. H. Asseu, 84 James St.	1 qt..	25	Vendor.....	.....
"	21	" ..	North, Hamilton.				
"	21	" ..	45190 Jas. Crawford, 34 King	1 " ..	40	" .....	.....
"	21	" ..	St. North, Hamilton.				
"	21	" ..	45191 Burk Bros., Mulberry St.,	1 " ..	25	Vendors .....	.....
"	21	" ..	Hamilton.				
Oct.	3	" ..	45192 L. O. Buist, 93 Emerald	1 " ..	25	Vendor ..	.....
"	3	" ..	St. South, Hamilton.				
"	3	" ..	45193 The Pure Milk Co. Ltd.,	1 " ..	25	Vendors.....	.....
"	3	" ..	151 John St. North,				
"	3	" ..	Hamilton.				
"	3	" ..	45194 The Union Dairy Co., 12	1 " ..	25	" .....	.....
"	3	" ..	Breadalbane St.				
"	3	" ..	Toronto.				
"	4	" ..	45195 Devonshire Mfg. Co., 65	1 " ..	25	" .....	.....
"	4	" ..	St. Nicholas St.				
"	4	" ..	Toronto.				
"	4	" ..	45196 City Dairy Co. Ltd.,	1 " ..	40	" .....	.....
"	4	" ..	Spaldina Crescent,				
"	4	" ..	Toronto.				
"	4	" ..	45197 Wm. Neilson, Ltd., 307	1 " ..	20	" .....	.....
"	4	" ..	Gladstone Av., Toronto.				
"	4	" ..	The Patterson Candy Co.,				
"	4	" ..	7 Mc. Caul St., Toronto.	1 " ..	25	" .....	.....

SESSIONAL PAPER No. 14

ICE CREAM.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Non-fat Solids.	Total Solids.	Fat.	Thickeners.		

JAS. HOGAN, INSPECTOR.

	p. c.	p. c.	p. c.			
.....	19·81	37·28	17·47	.....	46534	Up to standard in fat.
.....	19·94	35·04	15·10	.....	46535	"
.....	22·19	39·11	16·92	.....	46536	"
.....	13·20	40·43	27·23	.....	46537	"
.....	20·44	39·44	19·00	.....	46538	"
.....	*	.....	.....	.....	46539	No report.
.....	16·01	29·21	13·20	Gelatine	46540	Fat slightly below stand- ard.
.....	16·86	29·86	13·00	. . . . .	46541	"
.....	17·84	38·51	20·67	Starch	46542	Up to standard in fat.
.....	20·68	39·62	18·94	.....	46543	"

H. J. DAGER, INSPECTOR.

.....	20·93	31·97	11·04	Gelatine	45189	Fat below standard.
.....	17·05	36·47	19·42	.....	45190	Up to standard in fat.
.....	17·87	35·60	17·73	.....	45191	"
Vanilla.....	17·13	36·71	19·58	.....	45192	"
"	21·73	38·76	17 03	.....	45193	"
Strawberry	18·31	31·97	13·66	Gelatine.....	45194	Fat slightly below standard
Vanilla	17·58	28·50	10·92	"	45195	Fat below standard.
"	20·20	38·30	18·10	Gum tragacanth .	45196	Up to standard in fat.
"	16·47	36·28	19·81	Gelatine.....	45197	"
"	22·50	39·14	16·64	.....	45198	"

* Both samples broken in transit.
14—16½

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF WINDSOR—							
1910							
Sept. 12	Ice Cream..	42427	J. E. Boomer, London, Ont.	1 qt..	40	Vendor	
" 12	" ..	42428	Olympia Candy Co., London, Ont.	" ..	25	Vendors.....	
" 12	" ..	42429	J. Fawkes & Son, London, Ont.	3 bots.	25	"	
" 12	" ..	42430	Geo. Peters, London, Ont.	" ..	40	Vendor.....	
" 12	" ..	42431	C. J. Leach, London, Ont.	" ..	25	"	
" 13	" ..	42438	J. W. Griffith, London, Ont.	" ..	40	"	
" 13	" ..	42439	P. Hisskos, London East.	" ..	Nil.	"	
DISTRICT OF CALGARY—							
Sept. 19	Ice Cream..	43934	F. Rochon, Calgary	1 qt..	30	Vendor.....	
" 19	" ..	43935	Calgary Bakers, Ltd., Calgary.	" ..	50	Vendors.....	
" 20	" ..	43936	C. J. Winn, Calgary.....	" ..	50	F. Rochon.....	
" 20	" ..	43937	J. G. Freeze, "	" ..	50	"	
" 20	" ..	43938	F. Rochon, "	" ..	50	Vendor.....	
" 20	" ..	43939	The Boston, "	" ..	50	"	
" 20	" ..	43940	Maple Leaf, "	" ..	50	"	
" 20	" ..	43941	The Palmetto Bakery, Calgary.	" ..	50	"	
" 20	" ..	43942	MacFarlane & White, Calgary.	" ..	50	Vendors	
" 20	" ..	43943	R. H. Elkin, Calgary....	" ..	50	Vendor.....	
DISTRICT OF VANCOUVER—							
Oct. 17	Ice Cream..	38074	Royal Candy Factory, Vancouver.	1 qt. .	60	Vendors.....	
" 17	" ..	38075	Carson&Elder, Vancouver	1 " .	50	"	
" 17	" ..	38076	Empress Confectionery, Vancouver.	1 " ..	60	"	
" 17	" ..	38077	Frisco Candy Co., Vancouver.	1 " ..	50	"	
" 17	" ..	38078	Del's Confectionery, Vancouver.	1 " ..	50	"	
" 18	" ..	38079	Richmond Dairy Co., Vancouver.	1 " ..	50	"	
" 18	" ..	38080	Geo. S. Kerr & Co., Vancouver.	1 " ..	50	"	
" 18	" ..	38081	City Dairy Co., Vancouver.	1 " ..	50	"	
" 18	" ..	38082	Harrison's Drug Store, Vancouver.	1 " ..	50	City Dairy Co....	
" 18	" ..	38083	L. J. Gleeson, Vancouver	1 " ..	50	Richmond Dairy..	

SESSIONAL PAPER No. 14

ICE CREAM.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Non-fat Solids.	Total Solids.	Fat.	Thickeners.		
JNO. TALBOT, INSPECTOR.						
	p.c.	p.c.	p.c.			
.....	25.45	39.00	13.55	Gelatine.....	42427	Fat slightly below stan- dard.
.....	18.71	41.14	22.43	Starch	42428	Up to standard in fat.
.....	27.95	40.68	12.73	"	42429	Fat below standard.
.....	21.24	34.79	13.46	.....	42430	Fat slightly below stan- dard.
.....	23.94	34.03	10.09	.....	42431	Fat below standard.
.....	20.42	36.66	16.24	.....	42438	Up to standard in fat.
.....	22.61	32.66	10.05	Starch.....	42439	Fat below standard.
R. W. FLETCHER, INSPECTOR.						
.....	24.90	36.32	11.42	Gelatine and gum.	43934	Fat below standard.
.....	20.25	34.42	14.17	.....	43935	Up to standard in fat.
.....	25.99	40.20	14.21	Gelatine and gum.	43936	"
.....	24.12	38.66	14.54	"	43937	"
.....	25.78	38.06	12.28	"	43938	Fat below standard.
.....	15.68	32.83	17.15	.....	43939	Up to standard in fat.
.....	16.38	27.71	11.33	.....	43940	Fat below standard.
.....	22.40	39.64	17.24	.....	43941	Up to standard in fat.
.....	19.42	38.16	18.74	.....	43942	"
.....	25.04	37.48	12.44	.....	43943	Fat below standard.
J. F. POWER, INSPECTOR.						
.....	20.00	37.32	17.32	Gelatine.....	38074	Up to standard in fat.
.....		*		.....	38075	No report.
.....	21.50	37.40	15.90	Gelatine.	38076	Up to standard in fat.
.....	21.80	37.70	15.90	.....	38077	"
.....	21.92	39.60	17.68	.....	38078	"
.....	20.09	31.20	11.11	Starch	38079	Fat below standard.
.....	18.35	33.50	15.15	.....	38080	Up to standard in fat.
.....	20.06	39.66	19.60	.....	38081	"
.....	19.58	36.00	16.42	.....	38082	"
.....	22.00	36.10	14.00	Starch.....	38083	"

* Samples fermented.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VICTORIA—

1910							
Sept. 26	Ice Cream..	44927	A. Vaselatos, Victoria, B.C.	1 qt. . .	50	.....	Royal Dairy, Victoria.
" 26	" ..	44928	H. A. Lilly, Victoria, B.C.	1 " ..	50	Vendors.....	.....
" 26	" ..	44929	G. H. Keays, Victoria, B.C.	1 " ..	55	.....	Royal Dairy, Victoria.
" 26	" ..	44930	A. Bancroft, Victoria, B.C.	1 " ..	50	.....	Vict. Creamery & Milk Supply Co., Victoria, B.C.
" 27	" ..	44931	Geo. Praguiss, Victoria, B.C.	1 " ..	50	.....	"
" 29	" ..	44932	Harcop & Antipas, Victoria, B.C.	1 " ..	50	Vendors.....	.....
" 29	" ..	44933	Jno. Balmar, Victoria, B.C.	1 " ..	50	.....	Royal Dairy, Victoria, B.C.
" 29	" ..	44934	Vict. Creamery & Milk Supply Co., Victoria, B.C.	1 " ..	25	Vendors.....	.....
" 30	" ..	44935	Royal Dairy, Victoria, B.C.	1 " ..	50	" .....	.....
" 36	" ..	44936	A. Westindale, Victoria, B.C.	1 " ..	50	.....	Royal Dairy, Victoria, B.C.

SESSIONAL PAPER No. 14
ICE CREAM

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Non-fat Solids.	Total Solids.	Fat.	Thickeners.		

D. O'SULLIVAN, INSPECTOR.

	p.c.	p.c.	p.c.			
.....	17.68	35.55	17.87	.....	44927	Up to standard in fat.
.....		*		.....	44928	No report.
.....	17.39	36.86	19.47	.....	44929	Up to standard in fat.
.....	17.96	35.40	17.14	Gelatine	44930	"
.....	17.20	34.35	17.15	"	44931	"
.....	20.78	38.22	17.24	"	44932	"
.....	19.18	35.44	16.26	.....	44933	"
.....	17.96	36.86	18.90	Gelatine	44934	"
.....	18.43	40.48	22.05	.....	44935	"
.....	18.62	34.82	16.20	.....	44936	"

* Samples fermented.

APPENDIX N.

BULLETIN No. 219—BUTTER.

OTTAWA, November 28, 1910.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR,—I have the honour to hand you a report upon two hundred and eleven (211) samples of butter, collected throughout the Dominion in June and July of this year.

The standard for butter which has just been made legal, is as follows :—

Butter is the clean non-rancid product made by gathering in any manner the fat of fresh or ripened milk or cream into a mass, which also contains a small portion of the other milk constituents, with or without salt, and contains not less than eighty-two and five-tenths (82·5) per cent of milk fat, and not more than sixteen (16) per cent of water. Butter may also contain added colouring matter of harmless character.

This involves the definition for milk fat, which is as follows :—

Milk fat, Butter fat, is the fat of milk and has a Reichert-Meissl number not less than twenty-four (24) and a specific gravity not less than $0.905 \frac{(40^{\circ} \text{ C.})}{(40^{\circ} \text{ C.})}$

One hundred and ninety-five (195) samples or ninety-two (92) per cent of the whole, meet the requirements of the above standards for butter.

Of the remainder, fourteen (14) samples are slightly below the required content of milk fat. In only one instance (No. 45732, Peterboro') is this due to excess of water. It will be noted that the limit for water in butter is fixed at 16 per cent. This is consistent with the requirements of the butter Act of 1903. If then, a maximum limit of water is present in butter, the greatest amount of salt plus curd, which may be present is one and one half (1·5) per cent. As a matter of fact, the average water content of Canadian butter is about ten (10) per cent while salt is usually about three to four per cent, leaving the butter fat content much above the minimum 82·5 per cent required by law. In most of the fourteen cases now referred to, the amount of butter fat is very little lower than the legal minimum, and in only ten cases is the difference more than one (1) per cent. While this reduction of the butter fat below the legal limit, owing to excessive amounts of water and salt, is probably due to mere carelessness in manufacture, I have found it necessary to describe all cases in which the deficiency exceeds one per cent as being technically adulterated.

In two instances the fat fails to respond to the requirements for genuine milk fat. These samples are adjudged to be adulterated by admixture of foreign fat.

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The report may be summarized as follows :—

Genuine Butter.....	195
Technically Adulterated.....	10
Slightly below Standard.. . . .	4
Adulterated.....	2
<hr/>	
Total.....	211

I beg to recommend the publication of this report as Bulletin 219.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,
Chief Analyst.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.
				Quantity.	Cents.	

DISTRICT OF NOVA SCOTIA—

1910						
July 11	Butter	42051	R. B. Adams & Co., Halifax, N.S.	1 lb.	27	E. N. Thomas, Sackville, N.S.
" 11	"	42052	P. T. Shea, Halifax, N.S.	1 "	25	J. L. Patterson, Hants Co., N.S.
" 11	"	42053	Rooney & Lovett, Halifax, N.S.	1 "	25	Angus Ross, Stewiacke, N.S.
" 11	"	42054	Smith & Proctor, Halifax, N.S.	1 "	24	T. Knowles, Halifax, N.S.
" 11	"	42055	H. L. Willison, Halifax, N.S.	1 "	25	A. A. Hill, Londonderry, N.S.
" 11	"	42056	Wentzells, Ltd., Halifax, N.S.	1 "	25	Acadia Canning & Creamery Co., Kingston, N.S.
" 12	"	42057	O. J. Lyons, Kentville, N.S.	1 "	20	Unknown.
" 12	"	42058	B. H. Dodge, Kentville, N.S.	1 "	20	W. N. Fosbery, Kentville, N.S.
" 13	"	42059	Wentworth Stores, Windsor, N.S.	1 "	23	Mrs. Dow, Wentworth, N.S.
" 13	"	42060	Shand Bros., Windsor, N.S.	1 "	25	H. Robinson, Hants Co., N.S.
" 13	"	42061	John Riley, Windsor, N.S.	1 "	25	Mrs. J. Brown, Newport, N.S.
" 13	"	42062	W. H. Worth, Windsor, N.S.	1 "	22	Mrs. W. Philips, Hants Co., N.S.
" 13	"	42063	Murphy & Demont, Windsor, N.S.	1 "	23	W. Wilson, Falmouth, N.S.
" 14	"	42064	Moffett Bros., Amherst, N.S.	1 "	25	Jos. Colpitts, Pt. de Bute, N.B.
" 14	"	42065	Barry B. Bent, Amherst, N.S.	1 "	20	Unknown.

DISTRICT OF PRINCE EDWARD ISLAND—

June 20	Butter	38740	C. C. Carlton, Souris.	1 lb.	22	Mrs. Jas. McDonald, Rola Bay.
" 20	"	38741	A. Currie & Co., Souris.	1 "	25	J. C. Bushey, New Zealand, P.E.I.
" 21	"	38742	Mathew & McLean, Souris.	1 "	25	Mrs. Jackson, Bay Fortune.
" 21	"	38743	Cox Bros., Morell.	1 "	20	Mrs. Warren Webster, Bangor, P.E.I.
" 21	"	38744	H. D. McEwan, Morell.	1 "	22	Mrs. Jno. Phalen, Morell.
" 21	"	38745	J. W. McEwan, Lot 40.	1 "	22	Mrs. McGrath, Morell.
" 23	"	38746	J. H. McGougan, Hunter River.	1 "	19	Mrs. McGougan, Hunter River.
" 23	"	38747	Ewan Campbell, North Wiltshire.	1 "	20	Mrs. Hugh Campbell, Wiltshire
" 23	"	38748	R. Tuplin & Co., Kensington.	1 "	24	A. Glover, Kensington.
" 23	"	38749	D. McKenzie, Kensington.	1 "	22	Mrs. Wm. Painter, Kensington.
" 24	"	38750	Brace & McKay, Summerside.	1 "	20	Unknown.
" 24	"	38751	Sinclar & Stewart, Summerside.	1 "	20	Mrs. Geo. Schurman, New Annan.

SESSIONAL PAPER No. 14
BUTTER.

Inspector's Report. (Is not an expres- sion of opinion).	RESULTS OF ANALYSIS.				No. of Sample.	Remarks, and Opinion of the Chief Analyst.
	Moisture.	Salt.	Butyro-refrac- tometer reading at 40 C.	Dry Saltless Butter.		

J. R. WAUGH, INSPECTOR.

	p. c.	p. c.		p. c.		
.....	10.68	1.52	41.9	87.80	42051	Genuine.
.. .. .	8.78	2.34	43.0	88.88	42052	"
.....	8.02	4.16	43.0	87.82	42053	"
.....	6.72	2.92	44.3	90.36	42054	Reichert-Meissl, value = 29.14. Genuine.
.....	9.86	7.94	43.9	82.20	42055	Slightly below standard.
.....	8.74	3.92	43.1	87.34	42056	Genuine.
.....	8.28	4.30	43.8	87.42	42057	"
.....	10.28	0.54	43.3	89.18	42058	"
.....	12.90	3.10	43.2	84.00	42059	"
.....	11.32	4.18	44.1	84.50	42060	"
.....	11.40	1.92	42.3	86.68	42061	"
.....	7.54	2.56	43.3	89.90	42062	"
.....	11.88	2.80	42.5	85.32	42063	"
.....	10.66	3.58	42.3	85.76	42064	"
.....	7.56	5.68	43.8	86.76	42065	"

THEO. MOORE, INSPECTOR.

.....	8.24	5.98	44.7	85.78	38740	Reichert-Meissl, value = 28.18. Genuine.
.....	11.12	4.20	41.5	84.68	38741	Genuine.
.....	9.38	3.54	42.1	87.08	38742	"
.....	8.22	2.64	43.0	89.14	38743	"
.....	7.88	7.58	43.1	83.54	38744	"
.....	15.20	0.84	43.3	83.96	38745	"
.....	7.92	1.60	43.2	90.48	38746	"
.....	10.16	5.78	43.8	84.06	38747	"
.....	8.32	7.68	41.3	84.00	38748	"
.....	12.96	7.98	42.1	79.06	38749	Below standard ; technically adulterated.
.....	8.56	6.40	43.5	85.04	38750	Genuine.
.....	11.94	3.20	42.0	84.86	38751	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.
				Quantity.	Cents.	

DISTRICT OF PRINCE EDWARD ISLAND—

1910.						
July	4 Butter.....	38752	E. Toombs, Charlottetown.....	1 lb ..	20	Mrs. Hughes, Winsloe.....
"	4 "	38753	F. G. Holman, Charlottetown..	1 " ..	20	Unknown.....
"	4 "	38754	A. Gates & Co., Charlottetown.	1 " ..	20	Mrs. Newson, Cornwall, P.E.I.

DISTRICT OF NEW BRUNSWICK—

June	15 Butter	45261	M. E. Grass, St. John, N.B....	1 lb ..	25	H. Hammond, St. John, N. B..
"	16 "	45262	Herbert S. Francis, St. John, N.B.	1 " ..	26	Jas. P. Lawson, Belle Isle, N.B.
"	17 "	45263	Chas. L. Doherty, Fairville, N.B.	1 " ..	28	John Donivan, Cork Settlement, N.B.
"	20 "	45264	J. E. Quinn, St. John, N.B....	1 " ..	23	Purdy Bros., Sackville, N.B....
"	20 "	45265	Chas. A. Clark, St. John, N.B.	1 " ..	25	Mrs. Wright, Golden Grove, N.B.
"	23 "	45266	H. McGrattan & Sons, St. George, N.B.	1 " ..	22	Jas. McGarrigle, St. George Parish, N.B.
"	23 "	45267	Milne, Coutts & Co., Ltd., St. George, N.B.	1 " ..	25	Mrs. Jno. Campbell, St. George Parish, N.B.
July	5 "	45268	W. A. Estabrook, Fredericton, N.B.	1 " ..	25	Stafford Barker, Prince William, N.B.
"	6 "	45269	John Graham Estate, Woodstock, N.B.	1 " ..	23	Jos. Wolverton, Northampton, N.B.
"	7 "	45270	Benjamin Beveridge, Andover, N.B.	1 " ..	20	Mrs. Samuel Works, Andover, N.B.
"	8 "	45271	F. D. Sadler, Perth, N. B . .	1 " ..	20	Miss Maria Craig, Perth Parish, N.B.
"	9 "	45272	P. D. Burgoin, Grand Falls, N.B.	1 " ..	25	Mrs. Edward, Ouillet, Grand Falls Parish, N.B.
"	19 "	45273	King, Asbell & Co., Sussex, N.B.	1 " ..	24	Rowland Chestnut, Kings Co., N.B.
"	19 "	45274	Sussex Mercantile Co., Ltd., Petitcodiac, N.B.	1 " ..	25	Mrs. Jno. DeWolfe, Petitcodiac, N.B.

DISTRICT OF QUEBEC—

June	16 Butter.....	36408	M. Barnard, Stadacona.....	1 lb.	26	Emond & Cote, Quebec...
"	16 "	36409	Pierre Belanger & Cie., Stadacona.	1 " ..	28	Emond & Cote, Quebec.....
"	16 "	36410	Francois Cléche, Stadacona....	1 " ..	26	Octave Jacque, Quebec.....
"	16 "	36411	Napoleon Bigouette, Stadacona.	1 " ..	25	Maranda Marche, Champlain, Quebec.
"	16 "	36412	Jos. E. Plamondon, Stadacona.	1 " ..	25	Marier, Rue Dorchester, Quebec.
"	16 "	36413	Alphonse Martin, Stadacona....	1 " ..	26	Emond & Cote, Quebec.....
"	16 "	36414	Jos. Lajeunesse, Limoilou.....	1 " ..	25	Unknown.....
"	16 "	36415	E. P. Bérubé, Limoilou.....	1 " ..	25	Damase Rouleau, Quebec.

SESSIONAL PAPER No. 14
BUTTER.

Inspector's Report. (Is not an expres- sion of opinion).	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Salt.	Butyro-refrac- tometer reading at 10° C.	Dry Saltless Butter.		

Continued.

	p. c.	p. c.		p. c.		
.....	13.74	5.32	41.9	80.94	38752	Below standard ; technically adulterated.
.....	10.28	3.18	42.5	86.54	38753	Genuine.
.....	10.62	2.64	42.0	86.74	38754	"

J. C. FERGUSON, INSPECTOR.

.....	8.16	4.14	43.9	87.70	45261	Genuine.
.....	10.88	6.40	43.3	82.72	45262	"
.....	10.12	5.48	44.1	84.40	45263	"
.....	6.50	3.76	43.8	89.74	45264	"
.....	13.34	1.76	42.9	84.90	45265	"
.....	7.22	5.24	44.4	87.54	45266	Reichert-Meissl, value = 31.20. Genuine.
.....	10.74	2.54	43.0	86.72	45267	Genuine.
.....	9.00	2.22	43.8	88.78	45268	"
.....	10.46	2.52	42.8	87.62	45269	"
.....	12.10	10.16	43.3	77.74	45270	Below standard ; technically adulterated.
.....	10.14	8.72	42.8	81.16	45271	" "
.....	10.62	6.62	43.0	82.76	45272	Genuine.
.....	8.90	4.08	43.0	87.02	45273	"
.....	10.30	2.52	43.0	87.18	45274	"

E. BELAND, INSPECTOR.

.....	11.20	3.00	43.2	85.80	36408	Genuine.
.....	13.22	2.66	43.3	84.12	36409	"
.....	11.96	2.92	43.1	85.12	36410	"
.....	8.90	5.78	42.3	85.32	36411	"
.....	11.28	1.84	42.6	86.88	36412	"
.....	13.10	1.42	43.3	85.48	36413	"
.....	5.56	3.26	44.5	91.18	36414	Reichert-Meissl, value = 27.77. Genuine.
.....	8.80	5.92	43.1	85.28	36415	Genuine.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.
				Quantity	Cents.	

DISTRICT OF QUEBEC—

1910						
June 16	Butter.....	36416	Albert A. Gingras, Limoilou...	1 lb..	25	Unknown.....
" 16	"	36417	Hidallard Savard, Limoilou....	1 "	25	Unknown.....
" 16	"	36418	Veuve A. Roy, Limoilou.	1 "	28	Unknown.
" 16	"	36419	Jos. L. Letourneau, 135 Rue du Pont, Quebec.	1 "	26	J. Parent, Charlebourg.....
" 16	"	36420	Jos. Gregoire, 128 Rue du Pont, Quebec.	1 "	26	Jos. Lafont, Stonham.....
" 16	"	36421	Emile Paquet, 142 Rue du Roi, Quebec.	1 "	24	Unknown.....
" 16	"	36422	Guillaume Gingras, 263 Rue du Roi, Quebec.	1 "	22	Unknown.....

DISTRICT OF ST. HYACINTHE—

June 22	Butter	1322	N. Larivée, Farnham.	1 lb.	25	Unknown..
" 23	"	1323	R. E. Bertrand, Magog.	1 "	25	A. Poirier, Oliver Corner.....
" 23	"	1324	Tremblay & Cie, St. Catherine de Hatley.	1 "	25	Mde. Vve. Jos. Belanger, St. Catherine de Hatley.
" 27	"	1325	Mde. Grandchamp, Sorel..	1 "	23	Mde. Turgeon.
30	"	1326	J. D. Lacerte & Cie., Plessisville.	1 "	20	J. B. Goselin, Plessisville.....
July 12	"	1327	Alph Blais, Thetford Mines.....	1 "	22	Unknown.....
" 12	"	1328	C. Cote, D'Israëli.	1 "	25	Alph Roy, D'Israeli.....
" 12	"	1329	A. A. Jacques, Garthby.....	19 oz.	29	Geo. Blouin, Ham. Nord.....
" 13	"	1330	J. E. A. Roger, Lac Megantic..	1 lb ..	21	Unknown.....
" 13	"	1331	Robert Scott, Scotstown	18 oz..	22	O. Mathew, Scotstown.....
" 14	"	1332	A. Bourret, La Patrie.....	1 lb ..	25	Unknown.....
" 14	"	1333	Jos. Demers, Notre Dame des Bois.	1 " ..	25	Mde. A. Boisvert, N. D. des Bois.
" 19	"	1334	J. A. Phaneuf, St. Antoine River, Rich.	1 " ..	20	Vendor.
" 21	"	1335	H. Clapwood, St. Jean.....	1 " ..	25	Unknown.....

DISTRICT OF MONTREAL—

June 23	Butter.....	39922	Viau & Co., 801 St. Lawrence B., Montreal.	1 lb ..	24	.....
" 23	"	39923	St. Lawrence Grocery Co., 395 St. Lawrence B., Montreal.	1 " ..	25	.....
" 23	"	39924	N. Morin & Co., Bonsecours Market, Montreal.	1 " ..	25	.....

SESSIONAL PAPER No. 14
BUTTER.

Inspector's Report. (Is not an expres- sion of opinion).	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Salt.	Butyro-refrac- to-meter reading at 40° C.	Dry Saltless Butter.		

Continued.

	p. c.	p. c.		p. c.		
.....	8.66	2.38	42.2	88.96	36416	Genuine.
.....	10.98	4.08	43.7	84.94	36417	"
.....	9.54	3.36	43.9	87.10	36418	"
.....	12.14	5.52	42.3	82.34	36419	"
.....	13.78	1.06	44.0	85.16	36420	"
.....	9.84	2.92	44.3	87.24	36421	"
.....	12.23	2.52	42.5	85.20	36422	"

J. C. ROULEAU, INSPECTOR.

.....	14.48	1.60	42.9	83.92	1322	Genuine.
.....	8.79	2.00	44.0	89.30	1323	"
.....	10.52	1.80	43.8	57.68	1324	"
.....	10.22	1.50	42.0	88.28	1325	"
.....	11.80	3.94	42.3	84.26	1326	"
.....	10.80	5.12	44.2	84.18	1327	Reichert-Meissl, value = 31.46. Genuine.
.....	15.46	4.44	42.2	81.10	1328	Slightly below standard, and technically adulterated.
.....	8.56	5.26	43.3	86.18	1329	Genuine.
.....	11.30	1.86	43.0	86.84	1330	"
.....	14.74	2.42	44.9	82.84	1331	Reichert-Meissl, value = 26.92. Genuine.
.....	10.04	1.50	44.1	88.46	1332	Genuine.
.....	7.86	1.68	43.3	90.46	1333	"
.....	11.54	3.50	41.5	84.96	1334	"
.....	10.16	2.06	43.0	87.78	1335	"

J. J. COSTIGAN, INSPECTOR.

.....	14.58	1.82	41.9	83.60	39922	Genuine.
Corona brand....	13.72	2.64	44.0	83.64	39923	"
.....	12.88	1.66	45.0	85.46	39924	Reichert-Meissl, value = 27.36. Genuine.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.
				Quantity.	Cents.	

DISTRICT OF MONTREAL—

1910.						
June 23	Butter.....	39925	S. Beaulieu, Bonsecours Market, Montreal.	1 lb ..	26	Thomas Bros., St. Thomas, Ont.
" 23	"	39926	"	1 " ..	24	.....
" 23	"	39927	N. Lafortune, Bonsecours Market, Montreal.	1 " ..	25	.....
" 23	"	39928	U. Ethier, Bonsecours Market, Montreal.	1 " ..	25	Laporte et frere, Joliette, P.Q..
July 7	"	39929	S. Goodman & Son, 11 Lagauchetiere St. W., Montreal.	1 " ..	28	Hislop & Hunter, Montreal....
" 7	"	39930	R. Bernard, 91 Lagauchetiere St. E., Montreal.	1 " ..	27	.....
" 7	"	39931	A. Delisle, St. Antoine Market, Montreal.	1 " ..	25	.....
" 7	"	39932	Geo. Falle, St. Antoine Market, Montreal.	1 " ..	24	.....
" 7	"	39933	N. Deschenes, St. Antoine Market, Montreal.	1 " ..	25	.....
" 7	"	39934	H. Martel, 809 St. James St., Montreal.	1 " ..	25	Z. Limoge, Montreal.....
" 7	"	39935	Jos. St. Jean, Lachine, P.Q....	1 " ..	24	.....
" 7	"	39936	M. Beaudoin, Lachine, P.Q....	1 " ..	27	.....

DISTRICT OF OTTAWA—

June 11	Butter.....	43021	Wm. Lorimer, Brockville....	1 lb ..	25	Unknown.....
" 25	"	43022	Wm. L. Smith, Cornwall.	1 " ..	25	Gunn's, Toronto
" 25	"	43023	A. Edwards, Cornwall.....	1 " ..	25	MacDonald, St. Andrews
" 28	"	43024	Mullin Bros., Morrisburg . . .	1 " ..	25	Unknown... ..
" 23	"	43025	J. D. McDonald, Morrisburg...	1 " ..	25	Vendor.....
July 15	"	43026	P. Brankin, By Ward Market, Ottawa.	1 " ..	22	Unknown.....
" 15	"	43027	E. Gougeon, By Ward Market, Ottawa.	1 " ..	23	"
" 15	"	43028	S. Diamend, By Ward Market, Ottawa.	1 " ..	23	"
" 15	"	43029	P. Glavey & Son., By Ward Market, Ottawa.	1 " ..	23	"
" 15	"	43030	Mrs. Lunny, By Ward Market, Ottawa.	1 " ..	25	Mr. Perkins.....
" 16	"	43031	McDonald Bros., Gladstone Ave. Ottawa.	1 " ..	25	A. Doyle, Herberts Corners....
" 16	"	43032	Jas. Leaver, Ottawa.	1 " ..	23	Unknown.....
" 16	"	43033	J. Millar, Ottawa.....	1 " ..	25	Wm. Mills, Gladstone Ave., Ottawa.
" 16	"	43034	L. Malette, Dalhousie St., Ottawa.	1 " ..	25	Unknown.....
" 16	"	43035	P. Service, Cumberland St., Ottawa.	1 " ..	24	"

SESSIONAL PAPER No. 14

BUTTER.

Inspector's Report. (Is not an expres- sion of opinion).	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Salt.	Butyro-refrac- tometer reading at 40° C.	Dry Saltless Butter.		

Continued.

	p. c.	p. c.		p. c.		
.....	12.56	5.60	43.5	81.84	39925	Slightly below standard.
.....	10.70	2.28	43.0	87.02	39926	Genuine.
.....	10.50	2.44	42.8	87.06	39927	"
.....	13.84	1.48	43.2	84.58	39928	"
.....	14.18	2.58	42.9	83.24	39929	"
.....	10.94	3.04	43.1	86.02	39930	"
.....	7.72	5.96	44.0	86.32	39931	"
.....	10.86	3.20	43.2	85.94	39932	"
.....	9.96	4.70	43.4	85.34	39933	"
.....	7.48	2.32	43.0	90.20	39934	"
.....	11.78	1.98	43.8	86.24	39935	"
.....	12.08	3.72	42.5	84.20	39936	"

J. A. RICKEY, INSPECTOR.

.....	15.38	0.62	42.7	84.00	43021	Genuine.
.....	8.24	3.30	42.9	88.46	43022	"
.....	10.54	3.18	43.0	86.28	43023	"
.....	8.64	5.62	43.6	85.74	43024	"
.....	10.16	5.84	43.0	84.00	43025	"
.....	8.68	1.06	43.6	90.26	43026	"
.....	8.94	2.98	44.1	88.08	43027	Reichert-Meissl, value = 29.31. Genuine.
.....	8.78	3.44	44.2	87.78	43028	Reichert-Meissl, value = 29.42. Genuine.
.....	6.54	2.70	44.8	90.76	43029	Reichert-Meissl, value = 20.60. Adulter- ated.
.....	10.48	1.92	41.7	87.60	43030	Genuine.
.....	11.16	4.44	43.9	84.40	43031	"
.....	11.48	2.00	43.8	86.52	43032	"
.....	14.64	5.05	43.3	80.31	43033	Below standard ; technically adulterated.
.....	12.46	6.24	43.8	81.30	43034	Slightly below standard and technically adulterated.
.....	10.76	0.86	43.9	83.38	43035	Genuine.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.
				Quantity.	Cents.	

DISTRICT OF KINGSTON—

1910.						
June 16	Butter..	45721	P. A. Haffner, Kingston..	1 lb ..	25	Eastern Dairy School, Kingston
" 16	"	45722	A. B. Gage, Kingston.....	1 " ..	27	B. Keeler, Battersea.....
" 20	"	45723	R. Richardson, Napanee....	1 " ..	25	Mrs. Schormer.....
" 20	"	45724	J. Paisley, Napanee.....	1 " ..	25	Mrs. Shearman.....
" 20	"	45725	R. Elvins, Belleville.....	1 " ..	25	Unknown.....
" 20	"	45726	A. G. Vermilyea, Belleville ..	1 ..	25	"
" 21	"	45727	T. A. Fisher, Lindsay..	1 " ..	20	D. Bacon.....
" 21	"	45728	W. M. Robson, Lindsay.....	1 " ..	20	Unknown.....
" 21	"	45729	Adams Bros., Lindsay.....	1 ..	22	Unknown.....
" 21	"	45730	J. Flurey, Lindsay..	1 ..	20	Mrs. Nort.....
" 21	"	45731	A. C. Babcock, Lindsay..	1 ..	20	Mrs. Evans.....
" 21	"	45732	H. L. Burnham, Peterboro....	1 ..	26	P. Downham, Peterboro....
" 21	"	45733	H. B. Bradshaw, Peterboro. .	1 " ..	25	Mrs. Chathare.....
" 21	"	45734	A. J. Warne, Peterboro ..	1 ..	28	W. Weir, Lang, Ont.....
" 22	"	45735	S. Front, Port Hope.....	1 " ..	20	Mrs. T. Nicholes.....

DISTRICT OF TORONTO—

June 18	Butter..	45101	W. H. Bessey, Market Hall, Hamilton.	1 lb.	18	Unknown
" 18	"	45102	J. K. Smith, Market Hall, Hamilton.	1 " ..	19	J. V. Durham, Vanessa....
" 25	"	45103	J. Tomlinson & Son, St. Lawrence Market, Toronto.	1 " ..	22	Unknown
" 25	"	45104	J. D. Barnes, St. Lawrence Market, Toronto.	1 " ..	22	D. Stewart, Thistletown.....
" 25	"	45105	W. T. McDonnell, 40 Church St., Toronto.	1 " ..	20	Mrs. Jno. Knox, Creemore....
" 30	"	45106	A. E. Henry, Oshawa.....	1 " ..	18	Brooklin Creamery.....
" 30	"	45107	A. T. Lawlor, Whitby..	1 " ..	20	Mrs. Wm. McTaggart, Whitby.
July 4	"	45108	Sinclair & Co., Orillia.....	1 " ..	19	Mrs. Thorborne, Orillia.....
" 5	"	45109	Hower & Co. Ltd., Gravenhurst.	1 " ..	21	G. A. Leahman, Kilworthy
" 5	"	45110	Kirk Bros., Bracebridge..	1 " ..	17	Unknown.....
" 6	"	45111	J. W. Tudhope & Son, Huntsville.	1 " ..	20	Mrs. Geo. Francey, Huntsville.
" 6	"	45112	J. Perks, Parry Sound.....	1 " ..	23	Unknown.....

SESSIONAL PAPER No. 14

BUTTER.

Inspector's Report. (Is not an expres- sion of opinion).	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Salt.	Butyro-refrac- tometer reading at 40° C.	Dry Saltless Butter.		
JAS. HOGAN, INSPECTOR.						
	p. c.	p. c.		p. c.		
	11.28	0.84	43.9	87.88	45721	Genuine.
	12.50	5.68	44.2	81.82	45722	Reichert-Meissl, value = 30.67. Slightly below standard.
	10.76	3.62	41.5	85.62	45723	Genuine.
	10.88	4.62	43.3	84.50	45724	"
	10.54	4.20	44.5	85.26	45725	Reichert-Meissl, value = 31.10. Genuine.
	10.06	4.24	41.8	85.70	45726	Genuine.
	10.60	4.30	42.9	85.10	45727	"
	11.54	5.66	42.7	82.80	45728	"
	10.58	1.56	45.0	87.86	45729	Reichert-Meissl, value = 29.84. Genuine.
	9.04	4.10	43.9	86.86	45730	Genuine.
	12.62	8.04	43.8	79.36	45731	Below standard ; technically aduterated.
	17.04	3.22	43.7	79.74	45732	Below standard ; technically adulterated.
	11.56	4.56	43.7	83.88	45733	Genuine.
	8.76	2.78	43.2	88.46	45734	
	9.98	1.18	43.2	88.84	45735	
H. J. DAGER, INSPECTOR.						
	8.16	1.33	43.1	90.46	45101	Genuine.
	10.26	8.12	43.2	81.62	45102	Slightly below standard.
	12.14	1.44	43.3	86.42	45103	Genuine.
	14.18	3.30	43.2	82.52	45104	"
	9.16	12.88	43.1	77.96	45105	Below standard ; technically adulterated.
	12.36	1.74	42.3	85.90	45106	Genuine.
	9.76	2.56	44.5	87.68	45107	Reichert-Meissl, value = 27.23. Genuine.
	11.72	1.56	45.0	86.72	45108	Reichert-Meissl, value = 28.63. Genuine.
	12.16	2.46	43.9	85.38	45109	Genuine.
	9.80	3.16	43.3	87.04	45110	"
	11.12	4.32	43.7	84.56	45111	"
	14.26	1.76	43.5	83.98	45112	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.
				Quantity.	Cents.	

DISTRICT OF LONDON—

1910.						
July 23	Butter.....	44605	D. J. Maguire.....	1 lb ..	18	Mrs. Williams, McKillops. ...
" 30	"	44613	John Tautartino, grocer, Guelph.....	1 " ..	24	Mrs. Jas. Stewart.
" 30	"	44614	William Hood, Guelph.	1 " ..	23	Mrs. Monkman
" 30	"	44615	J. A. McCrea, Guelph.....	1 " ..	23	C. A. Darbey
" 13	"	44772	Dean Bros., Goderich.....	1 " ..	20	Mrs. Philip Rundler, Goderich Township.
" 13	"	44773	H. R. Long, Goderich.. ..	1 " ..	20	David Hamilton, Colborn Township.
" 14	"	44780	J. T. Lennon, Wingham.	1 " ..	20	Robt. Rowland, Wingham.....
" 14	"	44784	J. S. Gee, Listowell	1 " ..	20	Mrs. Wm. Kennedy, Listowell.
" 19	"	44792	W. R. Butcher, St. Mary's.....	1 " ..	22	Geo. Merriot, Blanchard Township.
" 20	"	44797	Jas. H. Pipse, Mitchell.....	1 " ..	20	Mrs. Gorley, Mitchell.....
" 21	"	44798	Peter Dill, Dublin.....	1 " ..	20	Mrs. Wm. Kenney, Logan Township.

DISTRICT OF WINDSOR—

June 27	Butter.....	42401	Haskett Bros., London.....	1 lb ..	20	Unknown.....
" 27	"	42404	W. Davies, London.	1 " ..	23	Molyneaux & Co., Dublin.....
" 27	"	42406	A. B. Jermyn, London.....	1 " ..	22	Mrs. Berry
" 27	"	42407	Jas. Falkner, London	1 " ..	22	Mrs. J. C. Zavitz, Poplar Hill..
" 27	"	42410	H. Guymer, London.....	1 " ..	22	Mrs. Lewis
" 28	"	42411	Duncan Bros., London	1 " ..	22	Mrs. Perkins.....
" 28	"	42412	S. W. Johnston, London	1 " ..	22	Mrs. Fraser.....
" 28	"	42414	F. E. Kestle, London.....	1 " ..	22	O. Hudson, Bryanston.
" 28	"	42417	H. P. Rosser, London	1 " ..	22	McNair.....
" 28	"	42418	Mrs. M. S. Deacon, London....	1 " ..	22	Mr. Reeve, Birr.

DISTRICT OF MANITOBA —

June 20	Butter	43486	B. Baker, 181 Bannerman St., Winnipeg.	1 lb.	25	The Carson Hygienic Dairy Co. 267 Maryland St., Winnipeg.
" 20	"	43487	F. Fawley, 1084 Main St. N., Winnipeg.	1 "	25	Simpson Produce Co., Winnipeg.
" 20	"	43488	Coyle Bros., Winnipeg.	1 "	28	Crescent Creamery Co., Winnipeg.
" 21	"	43489	P. H. Menlove, Main St. N., Winnipeg.	1 "	25	The Consolidated Butter Co., Higgins Ave., Winnipeg.

SESSIONAL PAPER No. 14

BUTTER.

Inspector's Report. (Is not an expres- sion of opinion).	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and Opinion. of the Chief Analyst.
	Moisture.	Salt.	Butyro-refrac- tometer reading at 40° C.	Dry Saltless Butter.		

T. KIDD, INSPECTOR.

	p. c.	p. c.		p. c.	
.....	10.32	2.06	43.0	87.62	44605 Genuine.
.....	8.76	3.58	45.0	87.66	44613 Reichert-Meissl, value = 30.09. Genuine.
.....	12.04	2.54	44.1	85.42	44614 Genuine.
.....	13.64	3.00	44.1	83.36	44615 "
.....	9.16	1.72	43.6	89.12	44772 "
.....	9.70	2.38	43.9	87.92	44773 "
.....	12.84	2.12	44.0	85.04	44780 "
.....	8.72	3.50	42.2	87.78	44784 "
.....	10.16	3.16	42.7	86.68	44792 "
.....	12.40	3.64	42.4	83.96	44797 "
.....	12.02	5.46	43.3	82.52	44798 "

JNO. TALBOT, INSPECTOR.

.....	9.18	0.28	44.6	90.54	42401 Reichert-Meissl, value = 26.53. Genuine.
.....	7.78	2.12	44.0	90.19	42404 Genuine
.....	14.52	2.52	43.2	82.96	42406 "
.....	8.92	1.38	43.5	89.70	42407 "
.....	9.40	0.76	44.7	89.84	42410 "
.....	11.32	1.52	44.7	87.16	42411 "
.....	12.38	3.16	43.5	84.46	42412 "
.....	13.86	0.30	43.6	85.84	42414 "
.....	10.42	0.40	43.8	89.18	42417 "
.....	6.88	1.44	42.5	91.68	42418 "

A. C. LARIVIERE, INSPECTOR

.....	13.28	1.94	43.6	84.78	43486 Genuine.
.....	8.64	2.18	44.5	89.19	43487 Reichert Meissl, value = 25.83. Genuine.
.....	14.10	3.06	43.8	82.84	43488 Genuine.
.....	7.92	5.16	43.9	86.92	43489 "

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.
				Quantity.	Cents.	

DISTRICT OF MANITOBA—

1910.						
June 21	Butter.....	43490	Templeton & Co., 1028 Main St. N., Winnipeg.	1 lb..	26	James McNaughton, St. Paul, M
" 21	"	43491	Moffett & Douglas, Selkirk Ave., Winnipeg.	1 "	25	Unknown.....
" 21	"	43492	S. G. Prebble, Notre Dame Ave., Winnipeg.	1 "	25	"
" 23	"	43493	H. Slason, Nena St., Winnipeg.	1 "	25	Dingle & Stewart, Winnipeg....
" 27	"	43494	G. T. Hoyes, Elmwood.....	1 "	25	Unknown..
" 27	"	43495	J. G. McGrath, Elmwood.....	1 "	25	"
" 28	"	43496	Heaney Bros., Portage Ave., Winnipeg.	1 "	25	"
" 28	"	43497	A. T. Culley, Norwood Grove..	1 "	25	The Simpson Produce Co., Win- nipeg.
" 28	"	43498	W. J. Kennedy, Norwood Grove.	1 "	25	Peter Falk.....
" 29	"	43499	Pasekov & Pearoin, Weston....	1 "	25	Unknown..
" 29	"	43500	Saunders Bros., Weston.....	1 "	25	Campbell Bros. & Wilson, Win- nipeg.

DISTRICT OF CALGARY—

July 5	Butter.....	43756	Craddack & Viner, Lethbridge..	1 lb ..	35	Government Creamery, Alberta.
" 5	"	43757	George Keer & Co., Lethbridge.	1 " ..	35	J. F. Miller, Lacombe.....
" 5	"	43758	A. Macdonald & Co., Lethbridge	1 " ..	35	W. G. Smith, Leavitt, Alta ...
" 5	"	43759	Hudson Bay Co., Lethbridge..	1 " ..	35	Campbell & Griffiths, Calgary..
" 13	"	43760	R. Dunn, Medicine Hat	1 " ..	30	A. Mart, Josephsburg, Alta....
" 13	"	43761	The D. Milne Co., Ltd., Medi- cine Hat.	1 " ..	30	Goslib Lust, Josephsburg, Alta.
" 20	"	43762	Wood & Green, Calgary..	1 " ..	25	Jas. D. Bailie, Black Diamond, Alta.
" 20	"	43763	J. A. Nolan, Calgary.....	1 " ..	30	W. L. Fischar, Mayton, Alta...
" 20	"	43764	Calgary Milling Co., Ltd., Cal- gary.	1 " ..	30	Pallison Bros., Co., Calgary....
" 20	"	43765	Hudson Bay Co., Calgary.....	1 " ..	30	Wild Rose Creamery, Ponoka, Alta.
" 20	"	43766	C. J. Winn, Calgary	1 " ..	30	J. F. Griffin & Co., Ltd., Cal- gary.
" 20	"	43767	Copas & Emerson, Calgary.....	1 " ..	30	H. Collinge, Didsbury, Alta....
" 20	"	43768	J. T. Macdonald, Calgary.....	1 " ..	30	R. B. Eaton, Stettler, Alta
" 20	"	43769	S. G. Freeze, Calgary	1 " ..	30	Mrs. C. Cristianson, Dickson, Alta.
" 20	"	43770	Hallat & Longdon, Calgary ..	1 " ..	30	Mrs. Behren, Bawlf, Alta.....

SESSIONAL PAPER No. 14

BUTTER.

Inspector's Report. (Is not an expres- sion of opinion).	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Salt.	Butyro-refrac- tometer, reading at 40°C.	Dry Saltless Butter.		

Continued.

	p. c.	p. c.		p. c.		
.....	11.14	3.78	43.0	85.08	43490	Genuine
.....	8.32	1.14	43.7	90.54	43491	"
.....	10.94	3.10	42.7	85.86	43492	"
.....	11.32	4.26	43.4	84.42	43493	"
.....	10.00	2.36	43.6	87.64	43494	"
.....	9.28	2.58	43.5	88.14	43495	"
.....	10.78	3.12	43.3	86.10	43496	"
.....	13.70	3.62	43.4	82.68	43497	"
.....	8.60	3.58	44.0	86.82	43498	"
.....	10.36	2.30	43.9	87.44	43499	"
.....	7.10	0.92	43.0	91.98	43500	"

R. W. FLETCHER, INSPECTOR.

.....	13.48	2.80	43.7	83.72	43756	Genuine.
.....	6.88	1.54	43.3	91.58	43757	"
.....	7.76	0.92	43.6	91.32	43758	"
.....	10.22	1.90	43.4	87.88	43759	"
.....	9.96	2.02	43.2	88.02	43760	"
.....	7.10	1.12	41.9	91.78	43761	"
.....	11.14	3.40	43.1	85.46	43762	"
.....	12.42	5.20	43.1	82.38	43763	"
.....	10.40	0.60	42.8	89.00	43764	"
.....	10.88	2.38	43.2	86.74	43765	"
.....	11.46	3.06	43.3	85.48	43766	"
.....	12.80	0.48	43.1	86.72	43767	"
.....	10.58	1.86	43.4	87.56	43768	"
.....	11.68	1.14	43.3	87.18	43769	"
.....	9.22	5.16	43.5	85.62	43770	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.
				Quantity.	Cents.	

DISTRICT OF VANCOUVER—

1910.						
June 29	Butter.	37956	S. Bell, Fairview, Vancouver...	1 lb ..	30	Parson & Haddock.....
" 29	"	37957	A. Doran, Fairview, Vancouver	1 " ..	35	Vancouver Creamery... ..
" 29	"	37958	T. H. Cardinal & Sons, Kitsilano Vancouver.	1 " ..	35	Chilliwack Creamery.....
July 19	"	37959	E. G. Cordingly, Cedar Cottage Vancouver.	1 " ..	35	A. P. Slade & Co.
" 19	"	37960	F. Oyling, Cedar Cottage, Van- couver.	1 " ..	35	W. H. Malkin & Co., Vancouver
" 19	"	37961	J. W. McIntyre, Cedar Cottage Vancouver.	1 " ..	35	Vancouver Creamery
" 19	"	37962	Cashen Bros., Cedar Cottage, Vancouver.	1 " ..	35	W. J. Prout... ..
" 19	"	37963	F. H. Hepper, Grandview.....	1 " ..	30	Naismith & Co.....
" 19	"	37964	H. W. Jones, Grandview.....	1 lb ..	30	P. Slade.....
" 19	"	37965	T. A. Brewis, Grandview	1 " ..	30	Unknown.....
" 19	"	37966	Mam's Grocery, Grandview....	1 " ..	25	G. W. Prout & Co.....
" 19	"	37967	Jos. Cossetti, Vancouver.....	1 " ..	30	Unknown.....
" 19	"	37968	Avenue Meat Market, Van- couver.	1 " ..	35	J. Y. Griffin
" 19	"	37969	Ed. Manning, Vancouver	1 " ..	35	Richmond Dairy.....
" 19	"	37970	A. H. Bower, Vancouver.....	1 " ..	35	Vancouver Creamery....

DISTRICT OF VICTORIA —

June 20	Butter.	41699	Windsor Grocery Co., Victoria.	1 lb ..	35	J. Y. Griffin & Co., Victoria, B.C.
" 20	"	41700	The Saunders Grocery Co., Ltd., Victoria.	1 " ..	30	F. R. Stewart & Co., Victoria, B.C.
" 21	"	41884	The West End Grocery Co., Ltd., Victoria.	1 " ..	30	B. Wilson Co., Ltd., Victoria, B.C.
" 21	"	44885	H. O. Kirkham, Victoria	1 " ..	30	The B. Wilson Co., Ltd., Vic- toria, B.C.
" 22	"	44886	Harrison & McDonald, Victoria	1 " ..	30	Simor Leiser & Co., Victoria, B.C.
" 22	"	44887	Acton Bros., Victoria.....	1 " ..	30	F. R. Stewart & Co., Victoria, B.C.
" 22	"	44888	W. B. Hall, Victoria.....	1 " ..	30	B. Wilson Co., Ltd., Victoria, B.C.
" 23	"	44889	Copas & Young, Victoria	1 " ..	30	Unknown....
" 23	"	44890	E. F. Plummer, Victoria.....	1 " ..	35	Naismith & Co., Vancouver....
" 24	"	44891	L. Dickinson, Victoria	1 " ..	30	Victoria Creamery, Victoria, B.C.
" 24	"	44892	J. Renouf, Victoria.....	1 " ..	35	C. Heals, Victoria, B.C.....
" 24	"	44893	E. G. Bailey, Victoria.....	1 " ..	30	B. Wilson Co., Ltd, Victoria, B.C.
" 24	"	44894	Erskine & Co., Victoria	1 " ..	35	Victoria Creamery, Victoria, B.C.
" 27	"	44895	A. Pool, Victoria.....	1 " ..	35	Naismith & Co., Vancouver. .
" 27	"	44896	Dixie H. Ross & Co., Victoria..	1 " ..	30	B. Wilson Co., Ltd., Victoria, B.C.

SESSIONAL PAPER No. 14

BUTTER.

Inspector's Report. (Is not an expres- sion of opinion.)	RESULTS OF ANALYSIS.				No. of Sample.	Remarks, and Opinion of the Chief Analyst.
	Moisture.	Salt.	Butyro-refrac- tometer reading a 40°C.	Dry Saltless Butter.		
J. F. POWER, INSPECTOR.						
	p.c.	p.c.		p. c.		
.....	11.60	1.10	43.6	87.30	37956	Genuine.
.....	9.92	3.84	43.0	86.24	37957	"
.....	12.72	1.40	43.4	85.88	37958	"
.....	13.28	3.84	43.5	82.88	37959	"
.....	12.70	1.52	43.5	85.78	37960	"
.....	8.64	1.90	42.3	89.46	37961	"
.....	13.36	2.00	43.9	84.64	37962	"
.....	10.56	2.04	43.3	87.40	37963	"
.....	8.32	0.66	43.1	91.02	37964	"
.....	9.94	0.94	42.9	89.12	37965	"
.....	6.66	4.36	43.5	88.98	37966	"
.....	12.46	2.24	43.0	85.30	37967	"
.....	12.94	3.98	42.8	83.08	37968	"
.....	12.12	1.20	43.8	86.68	37969	"
.....	14.52	2.28	43.1	83.20	37970	"
D. O'SULLIVAN, INSPECTOR.						
.....	7.64	1.60	43.5	90.76	41699	Genuine.
.....	10.68	1.44	43.8	87.88	41700	"
.....	9.82	3.20	43.9	87.98	44884	"
.....	12.28	1.38	42.9	86.34	44885	"
.....	10.84	1.72	42.0	87.44	44886	"
.....	8.54	1.38	44.8	90.08	44887	Reichert Meissl, value 22.21. Adulter- ated.
.....	13.20	0.66	43.0	86.14	44888	Genuine.
.....	8.96	3.60	44.2	87.44	44889	Reichert Meissl, value 28.72. Genuine.
.....	10.44	1.92	43.0	87.64	44890	Genuine.
.....	8.02	1.94	43.3	90.04	44891	"
.....	11.90	0.62	43.2	87.48	44892	"
.....	8.76	2.96	43.1	88.28	44893	"
.....	11.60	1.10	43.4	87.30	44894	"
.....	12.50	3.04	43.3	84.46	44895	"
.....	10.46	2.50	43.8	87.04	44896	"

APPENDIX O.

BULLETIN No. 220—TABLE SALT.

OTTAWA, Ont., December 7, 1910.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR,—I beg to hand you a report upon 273 samples of table salt, collected throughout the Dominion in October last.

The last inspection of this article was made in August, 1906, and is reported in Bulletin No. 128.

We have no legal standard for table salt in Canada. The following definition has been given legal force in the United States, since June, 1906 :—

Table salt, dairy salt, is fine grained crystalline salt, containing, on a water free basis, not more than one and four-tenths (1·4) per cent calcium sulphate (CaSO_4), nor more than five-tenths (0·5) per cent of calcium and magnesium chlorides (CaCl_2 and MgCl_2) nor more than one-tenth (0·1) per cent of matters insoluble in water.

I am of opinion that the above requirements are perfectly reasonable, for a purified salt, such as is suitable for table use. As judged by this standard, 215 samples (or 78 per cent of the collection) are normal. Of the remainder, 39 samples contain an excess of material insoluble in water. This is usually starch, carbonate of lime, or other harmless matter, evidently introduced to render the salt less hygroscopic—in other words, to prevent it from caking in use. This is probably an improvement, and is covered by Sec. 24, (a) which provides :—

Where any matter or ingredient not injurious to health has been added to the food or drug, in case such matter or ingredient is required for the production or preparation thereof as an article of commerce in a state fit for carriage or consumption, if the same has not been fraudulently added to such food or drug for the purpose of increasing the bulk, weight or measure thereof, or to conceal its inferior quality, and each package, roll, parcel or vessel containing every such article of food or drug manufactured, sold or exposed for sale is distinctly labelled as a mixture in conspicuous characters forming an inseparable part of a general label thereon bearing the name and address of the manufacturer.

In order that the manufacturer may have the protection afforded by this Section, it will be noted that the article must be marked and labelled as a mixture. In the absence of any legal standard, fixing the point at which matters other than chloride of sodium must be considered as *added* material, I have refrained, in this report, from describing any samples as being adulterated.

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It is hoped that before another collection of table salt is made, we shall have a standard for this article ; in which case the failure to state additions of foreign matter to salt will necessarily constitute adulteration under the Act.

I beg to recommend the publication of this report as Bulletin No. 220.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,

Chief Analyst.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA—

1910.							
Oct.	17	Table Salt	42170 J. F. Crowe & Co., Ltd., Halifax, N.S.	3 lbs.	04	Windsor Salt Co., Windsor, Ont.	Manufacturers.....
"	17	"	42171 T. J. Brown, Halifax, N.S.	3 "	05	Empire Salt Sarnia.	Co., J. F. Crowe & Co., Halifax.
"	17	"	42172 W. J. Hopgood & Son, Halifax, N.S.	3 "	05	Canadian Salt Windsor, Ont.	Co.,
"	17	"	42173 City Provision Store, Halifax, N.S.	3 "	05	" "	Jno. Tobin & Co., Halifax, N.S.
"	17	"	42174 J. L. Archibald & Son, Halifax, N.S.	3 "	05	" "	Chisholm & Co., Halifax, N.S.
"	17	"	42175 W. J. Forristall, Halifax, N.S.	2 "	10	Diamond Crystal Salt Co., St. Clair, Mich.	Bauld Bros., Halifax, N.S.
"	17	"	42176 F. W. Hodgeson, Halifax, N.S.	2 "	05	Canadian Salt Windsor, Ont.	Co., J. F. Crowe & Co., Halifax, N.S.
"	18	"	42177 T. F. Courtney & Co., Halifax, N.S.	2 "	05	Snow Flake Salt New York.	Co., Unknown
"	18	"	42178 E. B. Tracey, Halifax, N.S.	3 "	05	Dom. Salt Co., Sarnia.	Chisholm & Co., Halifax.
"	18	"	42179 E. Donahoe, Halifax, N.S.	3 "	05	Unknown	T. A. S. DeWolfe, Halifax.
"	18	"	42180 W. E. Crowe & Co., Halifax, N.S.	3 "	05	Canadian Salt Windsor, Ont.	Co., Jno. F. Crowe & Co., Halifax.
"	19	"	42181 Wentzells, Ltd., Halifax, N.S.	3 "	05	Empire Salt Sarnia, Ont.	Co., J. W. Goreham, Halifax.
"	19	"	42182 E. W. Crease & Son, Halifax, N.S.	3 "	05	Dom. Salt Co., Ont.	Sarnia, Unknown
"	19	"	42183 S. T. Craig, Halifax, N.S.	3 "	05	Empire Salt Sarnia, Ont.	Co.,
"	19	"	42184 R. B. Adams & Co., Halifax, N.S.	3 "	05	Canadian Salt Windsor, Ont.	Co., Jno. Tobin & Co., Halifax.
"	19	"	42185 Wm. Moore, Halifax, N.S.	3 "	05	Empire Salt Sarnia.	Co., Wentzells, Ltd., Halifax.
"	20	"	42186 O. J. Lyons, Kentville, N.S.	3 "	05	Canadian Salt Windsor, Ont.	Co., A. & W. Smith, Halifax.
"	20	"	42187 DeWolfe & Lamont, Kentville, N.S.	3 "	05	" "	R. B. Seeton, Halifax.
"	21	"	42188 Forsyth, jr., Dartmouth, N.S.	3 "	05	" "	J. F. Crowe & Co., Halifax.
"	21	"	42189 S. Mott, Dartmouth, N.S.	3 "	05	" "	Jno. Tobin & Co., Halifax.

DISTRICT OF PRINCE EDWARD ISLAND—

Sept.	12	Table Salt	45941 P. A. Smith, Charlottetown.	1 bag.	5	Empire Salt Co., Sarnia, Ont.	.....
"	13	"	45942 M. & A. McLeod, Charlottetown.	2 lbs.	2	.....	J. A. Farquharson, Charlottetown.
"	13	"	45943 J. A. Farquharson, Charlottetown.	1 bot.	15	G. & E. Morton, London, Eng.	.....
"	13	"	45944 W. W. Walker, Charlottetown.	1 bag.	5	Canadian Salt Windsor, Ont.	Co.,
"	13	"	45945 J. F. Mahar, Charlottetown.	1 "	5	Empire Salt Co., Sarnia, Ont.

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SALT.

Inspector's Report (Is not an expres- sion of opinion).	RESULTS OF ANALYSIS.				Character of Insoluble Matter.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Insoluble in water.	Sulphates % SO_4 .	Lime % CaO .	Calcium sulphate calculated from SO_4 .			

R. J. WAUGH, INSPECTOR.

	p. c.	p. c.	p. c.	p. c.		
.....	Less than 0.10	0.72	.....	1.03	.....	42170 Normal.
.....	"	.....	.....	Not over 1.0	.....	42171 "
.....	"	0.83	.....	1.18	.....	42172 "
.....	"	0.90	0.51	1.27	.....	42173 "
.....	"	.....	.....	Not over 1.0	.....	42174 "
Shaker Salt	1.73	.....	.....	"	Principally CaCO_3 ...	42175 Insoluble matter is high.
.....	Less than 0.10	0.82	.....	1.16	.....	42176 Normal.
.....	0.59	.....	.....	Not over 1.0	Principally CaCO_3 ...	42177 Insoluble matter high.
.....	Less than 0.10	.....	.....	"	.....	42178 Normal.
.....	"	0.89	0.46	1.26	.....	42179 "
.....	"	.....	.....	Not over 1.0	.....	42180 "
.....	"	.....	.....	"	.....	42181 "
.....	"	.....	.....	"	.....	42182 "
.....	"	.....	.....	"	.....	42183 "
.....	"	.....	.....	"	.....	42184 "
.....	"	.....	.....	"	.....	42185 "
.....	"	.....	.....	"	.....	42186 "
.....	"	.....	.....	"	.....	42187 "
.....	"	.....	.....	"	.....	42188 "
.....	"	0.87	.....	1.23	.....	42189 "

THEO. MOORE, INSPECTOR.

.....	Less than 0.10	.....	.....	Not over 1.0	.....	45941 Normal.
.....	"	.....	.....	"	.....	45942 "
.....	"	1.38	0.41	1.00	Calc. from CaO	45943 Sulphates high.
Windsor Table Salt, purest and best.	"	.....	.....	Not over 1.0	.....	45944 Normal.
.....	"	.....	.....	"	.....	45945 "

TABLE

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER, AS GIVEN BY THE VENDOR.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF PRINCE EDWARD ISLAND

1910.							
Sept. 14	Table Salt	45946	John McKenna, Charlottetown.	1 can.	15	Dearborn & Co., St. John, N.B.	
" 14	"	45947	Stewart & Son, Charlottetown.	1 "	12	W. H. Fleet, Ltd, Liverpool, Eng.	
" 14	"	45948	Geo. Rackham, Charlottetown.	1 "	10	Diamond Crystal Salt Co., St. Clair, Mich.	
" 14	"	45949	Mrs. F. H. Campbell, Pownal.	1 bag.	5	Dominion Salt Co., Sarnia, Ont.	
" 14	"	45950	A. N. Jenkins, Orwell	1 "	5	Empire Salt Co., Sarnia, Ont.	
" 16	"	45951	J. F. Morrissey, Kenlock.	1 "	5	Canadian Salt Co., Windsor, Ont.	
" 17	"	45952	A. D. Ross, Eldon.	2 lbs.	3	Unknown	
" 17	"	45953	Jas. H. C. Moore, Eldon.	2 "	3	Hickson & Son, England.	
" 17	"	45954	R. E. McDonald, Pinett.	2 "	3		R. E. Mutch, Charlottetown.
" 23	"	45955	D. McKenzie, Kensington.	1 bag.	5	Canadian Salt Co., Windsor, Ont.	
" 24	"	45956	Bruce & McKay, Summerside.	1 can.	10	Dearborn & Co., St. John, N.B.	
" 24	"	45957	Sinclair & Stewart, Summerside.	1 bag.	5	Dominion Crystal Salt Works, St. Clair, Mich.	
" 24	"	45958	F. W. Strong, Summerside.	2 lbs.	2	Canadian Salt Co., Windsor, Ont.	
" 24	"	45959	H. M. Sellar, Charlottetown.	1 can.	12	Cerebos, Ltd., London, Eng.	
" 24	"	45960	Carvell Bros., Charlottetown.	"	12	W. H. Flett, Liverpool, Eng.	

DISTRICT OF NEW BRUNSWICK--

Sept. 27	Table Salt	45369	H. S. Francis, St. John, N.B.	2 lbs.	5		Geo. E. Barbour, & Co., Ltd., St. John, N.B.
" 27	"	45370	2 Barkers Ltd., St. John, N.B.	1 bag.	7	The Can. Salt Co., Ltd., Windsor, Ont.	
" 27	"	45371	J. H. Case, St. John, N.B.	2 lbs.	3		G. S. DeForest & Sons, St. John, N.B.
" 28	"	45372	W. S. Vaughn, St. John, N.B.	1 can.	10	Diamond Crystal Salt Co., St. Clair, Mich.	
" 28	"	45373	J. H. Walker, St. John, N.B.	1 pkg.	10	Unknown	Unknown
" 28	"	45374	H. G. Marten, St. John, N.B.	1 bag.	5	The Dom. Salt Co., Ltd., Sarnia, Ont.	
Oct. 4	"	45375	W. A. Estabrook, Fredericton, N.B.	2 lbs.	5		A. F. Randolph & Son, Fredericton.
" 6	"	45376	W. A. Gillett, Antigonish, N.B.	1 pkg.	10	Can. Salt Co., Windsor, Ont.	
" 7	"	45377	W. L. Mallory, Perth, N.B.	1 bag.	10		

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SALT.—Continued.

Inspector's Report. (Is not an expres- sion of opinion.)	RESULTS OF ANALYSIS.				Character of Insoluble Matter.	No. of Sample.	Remarks and opinions of the Chief Analyst.
	Insoluble in water.	Sulphates (SO ₄)	lime % CaO.	Calcium Sulphate (calculated from SO ₄)			

THEO. MOORE, INSPECTOR—Concluded.

	p. c.	p. c.	p. c.	p. c.			
.....	1.63	1.05	0.69	1.49	Maize starch.....	45946	Insoluble matter high. Starch present.
.....	2.10	0.96	0.40	1.00	Calc. from CaO, Al. Ca & Mg carbonate	45947	Insoluble matter high.
.....	1.76	.....	.....	Not over 1.0	Principally CaCO ₃ ...	45948	"
.....	Less than 0.10	.....	.....	"	.....	45949	Normal.
.....	"	.....	.....	"	.....	45950	"
Windsor Table Salt, purest and best.	"	.....	.....	"	.....	45951	"
.....	"	0.87	0.50	1.23	.....	45952	"
.....	"	0.95	0.53	1.35	.....	45953	"
.....	"	0.80	0.53	1.13	.....	45954	"
Windsor Table Salt, purest and best.	"	0.83	.....	1.18	.....	45955	"
.....	3.00	0.99	0.57	1.41	Maize starch.....	45956	Insoluble matter high.
Dom. Crystal Salt, above 99% pure.	Less than 0.10	.....	.....	Not over 1.0	.....	45957	Normal.
.....	"	.....	.....	"	.....	45958	"
Contains mixed phosphates.	3.09	.....	.....	"	Principally alumina phosphate.....	45959	Insoluble matter high
.....	2.01	0.98	0.41	1.00	Calc. from CaO, Al. Ca & Mg carbonate	45960	"

J. C. FERGUSON, INSPECTOR.

.....	Less than 0.10	.....	.....	Not over 1.0	.....	45369	Normal.
.....	"	.....	.....	"	.....	45370	"
.....	"	0.92	0.55	1.31	.....	45371	"
Arober's Pearl Shaker Table Salt.	0.53	.....	.....	Not over 1.0	Principally MgCO ₃ ...	45372	Insoluble matter high
.....	0.64	0.80	.....	1.14	CaCO ₃ ..	45373	"
.....	Less than 0.10	.....	.....	Not over 1.0	.....	45374	Normal.
.....	"	1.30	0.76	1.84	.....	45375	Sulphates high.
.....	"	0.76	0.46	1.08	.....	45376	Normal.
.....	"	0.73	.....	1.04	.....	45377	"

2 GEORGE V., A. 1912

TABLE

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER AS GIVEN BY THE VENDOR.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NEW BRUNSWICK—

1910.							
Oct	7	Table Salt	45378 G. T. Baird Co., Ltd., Perth, N.B.	1 bag.	10	Can. Salt Co., Windsor, Ont.	
"	8	"	45379 Rosamond & Thomas, Grand Falls, N.B.	1 "	10	"	
"	8	"	45380 Jas. F. McClusky, Grand Falls, N.B.	1 "	10	"	
"	17	"	45381 Mills Eveleigh, Ltd., Sussex, N.B.	2 lbs.	5		J. N. Eveleigh & Co., Ltd., Sussex, N.B.
"	17	"	45382 W. B. McKay Co., Ltd., Sussex, N.B.	2 "	5		Baird & Peters, St. John, N.B.
"	18	"	45383 Mrs. P. White, Moncton, N.B.	2 "	10	Diamond Crystal Salt Co., St. Clair, Mich.	
"	19	"	45384 J. B. Snowball Co., Ltd., Chatham, N.B.	2 "	5	The Can. Salt Co., Ltd., Windsor, Ont.	
"	19	"	45385 D. MacLachlan, Chatham, N.B.	2 "	5	"	
"	19	"	45386 Geo. Stables, New-castle, N.B.	1 pkg.	5	"	
"	21	"	45387 A. C. Branch, Bathurst, N.B.	1 "	5	"	
"	21	"	45388 W. J. Kent Co., Ltd., Bathurst, N.B.	1 "	5	"	

DISTRICT OF QUEBEC.

Sept.	19	Table Salt	36326 Hamel & Bedard, 728 rue St. Valier, Québec	3 lbs.	5	F. A. Robitail, Québec.	Manufacturer.
"	19	"	36327 Arthur Drolet, 714 rue St. Valier, Québec.	2 bxs.	20	Unknown.	J. B. Reneaud & Cie., Québec.
"	19	"	36328 Arthur Drolet, 714 rue St. Valier, Québec.	1 sac.	5	Can. Salt Co., Ont.	Langlois & Paradis.
"	19	"	36329 Arthur Drolet, 714 rue St. Valier, Québec.	1 "	5	F. A. Robitail, Québec.	Manufacturer.
"	20	"	36330 Arthur Rinfret, 114 rue St. Joseph, Québec.	1 "	5	F. A. Robitail, Québec.	Manufacturer.
"	21	"	36331 Cantin Frère, 271 rue St. Joseph, Québec.	1 "	5	Can. Salt Co., Windsor.	N. Turcot & Cie., Québec.
"	22	"	36332 O. Lacroix, 19 rue St. Joseph, Québec.	1 "	5	Can. Salt Co., Windsor.	J. B. Reneaud & Cie., Québec.
"	22	"	36333 O. Lacroix, 19 rue St. Joseph, Québec.	1 "	5	F. A. Robitail, Québec.	Manufacturer.
"	23	"	36334 Alphonse Lyonais, 108 rue D'Orchester, Qué.	1 "	5	F. A. Robitail, Québec.	Manufacturer.
"	23	"	36335 Dell. G. A. Ernst, 120 rue D'Orchester, Qué.	1 "	5	Unknown.	A. Laroche, Québec.
"	26	"	36336 Theophile Julien, 124 rue D'Orchester, Qué.	1 "	5	East Salta Factory.	Manufacturer.
"	26	"	36337 Jos. D. Marier, 136 rue D'Orchester, Québec.	1 "	5	Unknown.	
"	27	"	36338 Elzéar Gagnon, 128 rue D'Orchester, Québec.	1 "	5	Mahea, Québec.	Manufacturer.

SESSIONAL PAPER No. 14

SALT—Continued.

RESULTS OF ANALYSIS.

Inspector's Report (Is not an expres- sion of opinion).	Insoluble in water.	Sulphates ° SO ₄ .	Lime ° CaO.	Calcium sulphate calculated from SO ₄ .	Character of Insoluble matter.	No. of Sample.	Remarks, and Opinion of the Chief Analyst.
J. C. FERGUSON INSPECTOR—Concluded.							
	p. c.	p. c.	p. c.	p. c.			
	Less than 0.10			Not over 1.0		45378	Normal.
	"	0.73		1.05		45379	"
	"			Not over 1.0		45380	"
	"			"		45381	"
	"			"		45382	"
Shaker's Table Salt with 10 % carbon- ate of magnesia.	0.61			"	Principally Mg. CO ₃ .	45383	Insoluble matter high
	Less than 0.10			"		45384	Normal.
	"	0.80	0.45	1.14		45385	"
	"			Not over 1.0		45386	"
	"	0.82	0.52	1.16		45387	"
	"			Not over 1.0		45388	"

E. BELAND, INSPECTOR.

	0.10	1.09	0.59	1.55		36326	Sulphates high.
	0.55				Principally CaCO ₃ ...	36327	Insoluble matter high.
	0.01	0.44	0.28	0.63		36328	Normal.
	0.02	0.62	0.37	0.88		36329	"
	0.16	1.41	0.76	2.00		36330	Sulphates high.
	0.01	0.70	0.45	1.00		36331	Normal.
	0.01	0.47	0.30	0.67		36332	"
	0.09	0.96	0.51	1.37		36333	"
	0.03	0.60	0.35	0.86		36334	"
	0.19	1.29	0.69	1.83		26335	Sulphates high.
	less than 0.10	0.95	0.57	1.35		36336	Normal.
	"	1.19	0.63	1.69		36337	Sulphates high.
	"	1.06	0.56	1.51		36338	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER, AS GIVEN BY THE VENDOR.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF QUEBEC

1910							
Sept. 27	Table Salt	36339	Philippe Clouet, 156 rue D'Orchester, Québec.	1 sac.	5	Unknown.	Turcot & Frère, Québec.
" 28	"	36340	Elzear P. Couture, 124 rue Caron, Québec.	1 "	5	F. A. Robitail, Québec.	Manufacturer.
" 28	"	36341	Jos. A. Talbot, 410 rue de la Reine, Québec.	1 "	5	Windsor, Ltd., Toronto.	Whitead & Turner, Québec.
" 29	"	36342	Jos. E. Morand, 406 rue St. Valier, Québec.	1 "	5	Can. Salt Co., Windsor.	J. B. Reneaud & Cie., Québec.
" 29	"	36343	Jos. Boutin, 40 rue de L'Eglise, Québec.	1 "	5	F. A. Robitail, Québec.	Bedard & Frère, Québec.
" 30	"	36344	Guillaume & Gingras, 268 rue de la Roie, Québec.	1 box.	10	Diamond Crystal Salt Co. Ltd., St. Clair, Mich.	J. B. Reneaud & Cie., Québec.
" 30	"	36345	Guillaume & Gingras, 268 rue de la Roie, Québec.	1 sac.	10	Can. Salt Co., Windsor.	J. B. Reneaud & Cie., Québec.

DISTRICT OF ST. HYACINTHE

Oct. 4	Table Salt	41068	Chas. Vincent, Granby, P.Q.	1 bag.	5		
" 5	"	41069	J. S. Maguire, Waterloo.	"	5		
" 5	"	41070	F. W. Jones, Waterloo.	"	5		
" 5	"	41071	F. Simard, Waterloo.	"	5		
" 5	"	41072	F. Simard, Waterloo.	"	10		
" 5	"	41073	Joseph Chartier, St. John's, P.Q.	"	5		
" 5	"	41074	A. Foisy, St. John's, P.Q.	1 carton.	10	Diamond Crystal Salt Co., St. Clair, Mich.	
" 5	"	41075	A. Foisy, St. John's, P.Q.	1 bag.	5		
" 10	"	41076	J. Leduc, St. Hyacinthe.	"	5		
" 10	"	41077	Henri Rock, St. Hyacinthe.	"	5		
" 10	"	41078	Gregoriè et frère, St. Hyacinthe.	"	5		
" 10	"	41079	Gregoriè et frère, St. Hyacinthe.	2 lbs.	5		
" 10	"	41080	H. Messier, St. Hyacinthe.	1 pkg.	5		
" 10	"	41081	H. Messier, St. Hyacinthe.	2 lbs.	5		
" 10	"	41082	A. Leost & Co., St. Hyacinthe.	1 bag.	5		
" 10	"	41083	P. Chagnon, St. Hyacinthe.	"	5		
" 10	"	41084	R. J. Brodeur & Cie, St. Hyacinthe.	"	5		

SESSIONAL PAPER No. 14

SALT.—Continued.

RESULTS OF ANALYSIS.						
Inspector's Report. (Is not an expres- sion of opinion.)	Insoluble in water.	Sulphates SO ₄ .	Lime % CaO.	Calcium Sulphate Calculated from SO ₄ .	Character of Insoluble Matter.	No. of Sample.
						Remarks and opinion of the Chief Analyst.

E. BELAND, INSPECTOR—Concluded.

	p. c.	p. c.	p. c.	p. c.		
.....	Less than 0·10	1·07	0·59	1·52	.....	36339 Sulphates high.
.....	"	1·03	0·55	1·46	.....	36340 Normal.
.....	"			not over 1·0	.....	36341 "
.....	"			"	.....	36342 "
.....	"			"	.....	36343 "
.....	1·53			"	.....	36344 Insoluble matter high.
.....	less than 0·10			"	Principally CaCO ₃ ...	36345 Normal.

J. J. COSTIGAN, ACTING-INSPECTOR.

Windsor Table Salt	Less than 0·10			Not over 1·0	.....	41068 Normal.
" "	"			"	.....	41069 "
Empire	"			"	.....	41070 "
" "	"	0·75		1·07	.....	41071 "
Windsor "	"	0·72		1·02	.....	41072 "
" "	"	0·75		1·07	.....	41073 "
" "	1·63			Not over 1·0	Principally CaCO ₃ , some MgCO ₃	41074 Insoluble matter high
" "	Less than 0·1	0·96	0·54	1·36	.....	41075 Normal.
" "	"			Not over 1·0	.....	41076 "
" "	"	0·97	0·58	1·38	.....	41077 "
" "	"	0·75		1·06	.....	41078 "
Unknown.....	"	1·12	0·62	1·59	.....	41079 Sulphates high.
Diamond Brand...	"	.....		Not over 1·0	.....	41080 Normal.
Imported.....	"	1·05	0·57	1·49	.....	41081 "
Windsor Brand...	"	0·82		1·16	.....	41082 "
Diamond " ..	"			Not over 1·0	.....	41083 "
Windsor " ..	"			"	.....	41084 "

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	COST.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER, AS GIVEN BY THE VENDOR.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF ST. HYACINTHE

1910.							
Oct. 10	Table Salt	41085	E. Benoit, St. Hya-	1 bag.	5		
			cinthe.				
" 10	"	41086	E. Benoit, St. Hya-	1 tin.	15		
			cinthe.				
" 10	"	41087	Z. Picotte & Cie, St.	1 bag.	5		
			Hyacinthe.				
" 10	"	41088	U. Frechette, St. Hya-	"	"		
			cinthe.				

DISTRICT OF MONTREAL—

Oct. 18	Table Salt	40762	O. Pilon, 112 St. Mau-	2 lbs.	5		
			rice St., Montreal.				
" 18	"	40763	O. Pilon, 112 St. Mau-	1 bag.	5		
			rice St., Montreal.				
" 18	"	40764	Dom. Grocery, 111 St.	2 lbs.	2		
			Maurice St., Mont'l.				
" 18	"	40765	Dom. Grocery, 111 St.	1 bag.	5		
			Maurice St., Mont'l.				
" 18	"	40766	A. Laniel, 193 McCord	1 "	5		
			St., Montreal.				
" 18	"	40767	A. Laniel, 193 McCord	2 lbs.	2		L. Chaput fils et Cie
			St., Montreal.				
" 18	"	40768	O. Ferron, 208 McCord	1 bag.	5		
			St., Montreal.				
" 18	"	40769	O. Ferron, 208 McCord	2 lbs.	5		
			St., Montreal.				
" 18	"	40770	W. Demontigny, 235 2	"	5		Larue, Cloutier &
			McCord St., Mont'l.				Co.
" 18	"	40771	A. Desrochers, 7 Moun-	2 "	5		
			tain St., Montreal.				
" 20	"	40772	Jos. David, 237 Adam	2 "	4		
			St., Maissonneuve.				
" 20	"	40773	A. Pigeon, 220 Lasalle	2 "	3		Laporte, Martin,
			St., Montreal.				Ltd.
" 20	"	40774	L. Montplaisir, 552 St.	2 "	2		
			Catherine St., Mont'l				
" 20	"	40775	G. Rivet, 2121 St.	2 "	3		
			Catherine E., Mont'l				
" 20	"	40776	L. E. Roberge, 1794 St.	3 "	3		Lalonde et Des-
			Catherine E., Mont'l				roches.
" 24	"	40777	Pelletier et frère, 17 2	"	4		
			Charboliz Sq., Mont-				
			real.				
" 24	"	40778	A. Lagarde, 549 Notre	2 "	5		
			Dame W., Montreal.				
" 24	"	40779	Archambault et frère,	2 "	2		
			747 Notre Dame W.,				
			Montreal.				
" 24	"	40780	T. Montpetit et Cie.,	2 "	3		
			973 Notre Dame W.,				
			Montreal.				
" 24	"	40781	J. N. Chatrand, 114 2	"	2		
			Fulford St., Mont'l.				

SESSIONAL PAPER No. 14

SALT.—Continued.

Inspector's Report. (Is not an expres- sion of opinion.)	RESULTS OF ANALYSIS.				Character of Insoluble Matter.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Insoluble in water.	Sulphates % SO_4	Lime % CaO .	Calcium Sulphate Calculated from SO_4			

J. J. COSTIGAN, ACTING-INSPECTOR.

Empire	Salt ..	p. c. Less than 0.16	p. c. 0.73	p. c.	p. c. 1.04	.....	41085	Normal.
Cerebos	" ..	3.23	.....	.....	Not over 1.0	Principally Alumina Phosphate.....	41086	Insoluble matter high
Windsor	" ..	Less than 0.10	0.75	.....	1.07	.....	41087	Normal.
"	" ..	"	.....	.....	Not over 1.0	.....	41088	"

J. J. COSTIGAN, INSPECTOR.

.....	.....	Less than 0.1	1.03	0.57	1.46	.....	40762	Normal.
Windsor Table Salt	.....	"	.....	.....	Not over 1.0	.....	40763	"
.....	.....	"	.....	.....	"	.....	40764	"
Empire Table Salt	.....	"	.....	.....	"	.....	40765	"
Windsor Table Salt	.....	"	.....	.....	"	.....	40766	"
.....	.....	"	0.95	0.52	1.35	.....	40767	"
Windsor Table Salt	.....	"	.....	.....	Not over 1.0	.....	40768	"
.....	.....	"	1.11	0.62	1.57	.....	40769	Sulphates high.
.....	.....	"	1.15	0.62	1.63	.....	40770	"
.....	.....	"	0.89	0.53	1.26	.....	40771	Normal.
.....	.....	"	1.10	0.60	1.57	.....	40772	Sulphates high.
.....	.....	"	1.41	0.75	2.00	.....	40773	"
.....	.....	"	0.82	.....	1.16	.....	40774	Normal.
.....	.....	"	0.81	.....	1.15	.....	40775	"
.....	.....	"	0.85	.....	1.20	.....	40776	"
.....	.....	"	1.03	0.59	1.46	Dirty.....	40777	"
.....	.....	"	0.83	0.50	1.18	"	40778	"
.....	.....	"	.....	.....	Less than 1.0	"	40779	"
Windsor Brand...	.....	"	1.00	0.55	1.42	"	40780	"
.....	.....	"	0.99	0.56	1.40	"	40781	"

2 GEORGE V., A. 1912

TABLE

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER, AS GIVEN BY VENDOR.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF OTTAWA—

1910.							
Sept. 7	Table Salt	43101	Goodall Bros., Ottawa	3lbs.	5	Canadian Salt Co., Windsor, Ont.	H. N. Bate & Sons, Ltd., Ottawa.
" 8	"	43103	H. N. Anstiss, Bank St., Ottawa.	3 "	5	Canadian Salt Co., Windsor, Ont.	Unknown.....
" 13	"	43105	J. C. Brown & Co., Vankleek Hill.	3 "	5	Canadian Salt Co., Windsor, Ont.	Forbes Bros., Montreal.
" 13	"	43106	Cameron & Downing, Vankleek Hill.	3 "	5	Canadian Salt Co., Windsor, Ont.	Mathewson's Sons, Montreal.
" 14	"	43107	J. H. Mendels, Perth, Ont.	3 "	5	Canadian Salt Co., Windsor, Ont.	Verret Stewart & Co., Montreal.
" 20	"	43108	P. C. Leslie & Co., Prescott.	3 "	5	Canadian Salt Co., Windsor, Ont.	Manufacturers.
" 20	"	43109	R. A. Scott, Prescott.	3 "	5	Canadian Salt Co., Windsor, Ont.	Gilmour & Co., Brockville.
" 21	"	43110	J. A. Stubinsky, Renfrew.	3 "	5	Canadian Salt Co., Windsor, Ont.	Robertson Nicolle, Smiths Falls.
" 21	"	43111	P. J. Campbell, Renfrew.	3 "	5	Canadian Salt Co., Windsor, Ont.	Manufacturers.
" 21	"	43112	Stewart Bros. Co., Renfrew.	3 "	5	Canadian Salt Co., Windsor, Ont.	Manufacturers.
" 26	"	43113	L. Frair, Somerset St., Ottawa.	2 "	10	Diamond Crystal Salt Co., St. Clair, Mich.	S. J. Major, Ltd., Ottawa.
" 26	"	43114	A. P. Johnson, Bronson Ave., Ottawa.	3 "	5	Canadian Salt Co., Windsor, Ont.	H. N. Bate & Sons, Ltd., Ottawa.
" 26	"	43115	T. Bowman, Somerset St., Ottawa.	3 "	5	Canadian Salt Co., Windsor, Ont.	F. J. Castle Co., Ltd., Ottawa.
" 26	"	43116	N. S. Schwerdfager, Somerset St., Ottawa.	3 "	5	Canadian Salt Co., Windsor, Ont.	F. J. Castle Co., Ltd., Ottawa.
" 27	"	43117	Lapensee & Lafleur, Albert St., Ottawa.	3 "	5	Canadian Salt Co., Windsor, Ont.	H. N. Bate & Sons, Ltd., Ottawa.
" 27	"	43118	W. Farmer, Wellington St., Ottawa.	1 bot.	13	C. & E. Morton, London, Eng.	H. N. Bate & Sons, Ltd., Ottawa.
" 27	"	43119	R. Richardson, Preston St., Ottawa.	3lbs.	5	Canadian Salt Co., Windsor, Ont.	Lerner & Son, Ottawa.
" 27	"	43120	Wishart & Son, Preston St., Ottawa.	3 "	5	Canadian Salt Co., Windsor, Ont.	F. J. Castle Co., Ottawa.
" 27	"	43151	Wm. Miller, Somerset St., Ottawa.	3 "	5	Canadian Salt Co., Windsor, Ont.	H. N. Bate & Sons, Ltd., Ottawa.
" 27	"	43152	D. Brown, 1124 Wellington St., Ottawa.	3 "	5	Canadian Salt Co., Windsor, Ont.	F. J. Castle Co., Ltd., Ottawa.

SESSIONAL PAPER No. 14

SALT—Continued.

Inspector's Report (Is not an expres- sion of opinion.)	RESULT OF ANALYSIS.				Character of Insoluble Matter.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Insoluble in water.	Sulphates % SO_4 .	Impure CaO .	Calcium Sulphate calculated from SO_4 .			

J. A. RICKEY, INSPECTOR.

	p. c.	D. c.	P. c.	p. c.			
Labelled Windsor Table Salt purest and best.	Less than 0.10	.....	.....	.....	.....	43101	Normal.
" " " "	"	.....	.....	.....	.....	43103	"
" " " "	"	0.81	0.51	1.16	.....	43105	"
" " " "	"	0.85	0.53	1.21	.....	43106	"
" " " "	"	.....	.....	Not over 1.0	.....	43107	"
" " " "	"	0.75	0.48	1.07	.....	43108	"
" " " "	"	.....	.....	Not over 1.0	.....	43109	"
" " " "	"	.....	.....	"	.....	43110	"
" " " "	"	.....	.....	"	.....	43111	"
" " " "	"	.....	.....	"	.....	43112	"
Lab. Shaker Table Salt with 1% carbonate magnesia.	0.80	.....	.....	"	Principally MgCO_3 .	43113	Insoluble matter high.
Labelled Windsor Table Salt purest and best.	Less than 0.10	.....	.....	"	.....	43114	Normal.
" " " "	"	.....	.....	"	.....	43115	"
" " " "	"	0.85	0.53	1.21	.....	43116	"
" " " "	"	.....	.....	Not over 1.0	.....	43117	"
Labelled Fine Table Salt.	"	1.58	0.48	1.16	Calc. from CaO	43118	Sulphates high.
Labelled Windsor Table Salt purest and best.	"	0.82	0.52	1.16	.....	43119	Normal.
" " " "	"	.....	.....	Not over 1.0	.....	43120	"
" " " "	"	0.76	0.47	1.11	.....	43151	"
" " " "	"	.....	.....	Not over 1.0	.....	43152	"

2 GEORGE V., A. 1912

TABLE

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	COST		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER, AS GIVEN BY THE VENDOR.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF KINGSTON.							
1910.							
Oct.	7 Table Salt.	46564	W. E. Hopkinson, 2 lbs., Kingston.	5	Canadian Salt Co., Windsor, Ont.	Geo. Robertson, Kingston.	
"	7 "	46565	Geo. Gibson, Kingston. 2 "	5	Canadian Salt Co., Windsor, Ont.	.....
"	7 "	46566	H. M. Stover, " 2 "	5	Le Roy, N. Y. ....	.....
"	7 "	46567	W. J. Arniel, Alford St., Kingston.	2 "	Dom. Salt Co., Sarnia.	.....
"	7 "	46568	W. H. Medley, King- ston.	2 "	Canadian Salt Co., Windsor.	.....
"	7 "	46569	N. J. Nesbitt, King- ston.	2 "	Dom. Salt Co., Sarnia.	.....
"	7 "	46570	C. H. Pickering, King- ston.	2 "	Empire Co., "	.....
"	10 "	46571	A. H. Reinecke, Belle- ville.	2 "	Canadian Salt Co., Windsor, Ont.	Manufacturer	
"	10 "	46572	R. Fenn & Son, Belle- ville.	2 "	Canadian Salt Co., Windsor, Ont.	"	
"	10 "	46573	Geo. Pearson, Belle- ville.	2 "	Canadian Salt Co., Windsor, Ont.	"	
"	10 "	46574	J. Penter & Son, Belle- ville.	2 "	Canadian Salt Co., Windsor, Ont.	"	
"	10 "	46575	J. H. P. Young, Belle- ville.	2 "	Canadian Salt Co., Windsor, Ont.	"	
"	11 "	46576	W. J. Routly, Peter- boro.	2 "	Canadian Salt Co., Windsor, Ont.	"	
"	11 "	46577	G. O. Brine, Peterboro.	2 "	Canadian Salt Co., Windsor, Ont.	"	
"	11 "	46578	J. Hill, " 2 "	5	Canadian Salt Co., Windsor, Ont.	"	
"	11 "	46579	J. Sutherland, " 2 "	5	Canadian Salt Co., Windsor, Ont.	"	
"	11 "	46580	J. Bell, " 2 "	5	Canadian Salt Co., Windsor, Ont.	"	
"	11 "	46581	E. F. Mason, " 2 "	5	Canadian Salt Co., Windsor, Ont.	"	
"	11 "	46582	J. M. Fanning, " 2 "	5	Canadian Salt Co., Windsor, Ont.	"	

SESSIONAL PAPER No. 14

SALT—Continued.

RESULTS OF ANALYSIS.						
Inspector's Report (Is not an expres- sion of opinion).	Insoluble in water.	Sulphates SO_4 .	Lime % CaO .	Calcium Sulphate calculated from SO_4 .	Character of Insoluble Matter.	No. of Sample.
						Remarks and Opinion of the Chief Analyst.

JAS. HOGAN, INSPECTOR.

p. c.	p. c.	p. c.	p. c.		
Less than 0.10	..	..	Not over 1.0	.....	46564 Normal.
"	.....	.....	"	.....	46565 "
"	.....	.....	"	.....	46566 "
"	.....	.....	"	.....	46567 "
"	.....	.....	"	.....	46568 "
"	.....	.....	"	.....	46569 "
"	.....	.....	"	.....	46570 "
"	0.71	.....	1.01	.....	46571 "
"	.....	.....	Not over 1.0	.....	46572 "
"	0.71	.....	1.01	.....	46573 "
"	0.86	0.48	1.22	.....	46574 "
"	.....	.....	Not over 1.0	.....	46575 "
"	0.81	0.50	1.15	.....	46576 "
"	0.80	0.47	1.14	.....	46577 "
"	0.87	0.51	1.23	.....	46578 "
"	0.74	.....	1.05	.....	46579 "
"	.....	.....	Not over 1.0	.....	46580 "
"	0.85	0.48	1.21	.....	46581 "
"	0.71	.....	1.01	.....	46582 "

TABLE

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF TORONTO—							
1910.							
Sept. 13	Table Salt	45169	E. Dawe, 115 St. Patrick St. Toronto.	2 lbs.	5	Canadian Salt Co., Windsor.	
" 13	"	45170	Samuel Good, 328 Spadina Ave., Toronto.	2 "	5	" "	
" 14	"	45171	T. W. Squire, Church St., Toronto.	2 "	5	The Western Salt Co. Ltd., Moretown, Ont.	
" 14	"	45172	Toronto Salt Works, 128 Adelaide St., Toronto.	2 "	10	Vendor.....	
" 15	"	45173	The Robt. Simpson Co. Ltd., Toronto.	2 "	5	Le Roy Salt Co., Le Roy, N. Y.	
" 15	"	45174	F. W. Humphrey, 47 Front St. E., Toronto.	2 "	10	The Western Salt Co. Ltd., Moretown, Ont.	
" 15	"	45175	Medland Bros. Ltd., 73 Front St. E., Toronto.	2 "	10	Diamond Crystal Salt Co., St. Clair, Mich.	
" 15	"	45176	Michie Co. Ltd., 7 King St. W., Toronto.	2 "	15	Crosse & Blackwell, London, Eng.	
" 15	"	45177	E. S. Calder, Gerard St., Toronto.	2 "	10	W. H. Flett, Ltd., Liverpool, Eng.	
" 16	"	45178	Geo. Reily, 1476 Queen St., Toronto.	2 "	5	Salt Royal Co. Ltd., Manchester, Eng.	
" 19	"	45179	Jas. J. McQuarrie, 11 King William Street, Hamilton.	2 "	5	Canadian Salt Co., Ltd., Windsor, Ont.	
" 19	"	45180	J. O. Carpenter, 11 Market Square, Hamilton.	2 "	20	Crosse & Blackwell, London, Eng.	
" 19	"	45181	Peebles Hobson Co. Ltd., King St., Hamilton.	2 "	10	The Western Salt Co. Ltd., Moretown, Ont.	
" 20	"	45182	James Lawrie, Wilson St., Hamilton.	2 "	10	The Western Salt Co. Ltd., Moretown, Ont.	
" 22	"	45183	Jas. Sanderson, Orangeville	2 "	5	Canadian Salt Co. Ltd., Windsor, Ont.	
" 23	"	45184	J. G. Spragge, Owen Sound.	2 "	5		Eby Blain Ltd., Toronto.
" 23	"	45185	D. A. McLean, Owen Sound.	2 "	10	The Western Salt Co. Ltd., Moretown, Ont.	
" 23	"	45186	C. W. Fox, Owen Sound.	2 "	5	Diamond Crystal Salt Co., St. Clair, Mich.	
" 29	"	45187	H. Coxwell, 17 Howard St., Toronto.	2 "	10	The Canadian Salt Co., Windsor, Ont.	
" 29	"	45188	The Vair Produce Co. Ltd., 468 Spadina Ave., Toronto.	2 "	5		

SESSIONAL PAPER No. 14

SALT—Continued.

Inspector's Report. (Is not an expres- sion of opinion).	RESULTS OF ANALYSIS.				Character of Insoluble Matter.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Insoluble in water.	Sulphates % SO_4 .	Lime % CaO .	Calcium sulphate calculated from SO_4 .			

H. J. DAGER, INSPECTOR.

	p. c.	p. c.	p. c.	p. c.			
Windsor table salt, purest and best.	Less than 0.10	.....	.....	.....	.....	45169	Normal.
Windsor table salt, purest and best.	"	.....	.....	.....	.....	45170	"
Purity table Salt..	"	1.02	0.61	1.45	.....	45171	"
Acme table salt....	1.09	.....	.....	Not over 1.0	Maize starch....	45172	Insoluble matter high
LeRoy " ..	Less than 0.10	.....	.....	"	.....	45173	Normal.
Purity " ..	2.35	.....	.....	"	Principally Ca. CO_3 , also Mg. CO_3 .	45174	Insoluble matter high
Shaker's salt with 1 p. c. carbonate of Magnesia.	0.82	.....	.....	"	Principally Mg. CO_3 .	45175	" "
.....	1.33	1.50	0.29	0.71	Calc. from CaO. Ca. CO_3 & Mg. CO_3 .	45176	" "
Alvina brand.....	0.48	.....	.....	Not over 1.0	" "	45177	" "
Salt royal.	0.24	.....	.....	"	" "	45178	" "
Windsor table salt, purest and best.	Less than 0.1	.....	.....	Not over 1.0	.....	45179	Normal.
Refined British table salt.	"	1.55	0.49	1.18	Calc. from Ca. O ..	45180	Sulphates high.
Purity brand.....	2.18	.....	.....	Not over 1.0	Principally Ca. CO_3 , some Mg. CO_3 .	45181	Insoluble matter high
"	1.86	1.11	0.63	1.58	Principally CaCO_3 ..	45182	" "
Windsor table salt, purest and best.	Less than 0.1	.....	.....	Not over 1.0	.....	45183	Normal.
.....	"	.....	.....	"	Principally Ca. CO_3 .	45184	"
Purity brand.....	1.83	.....	.....	"	.....	45185	Insoluble matter high
Diamond crystal salt.	Less than 0.1	.....	.....	"	.....	45186	Normal.
Windsor salt, pur- est and best.	"	1.19	0.69	1.69	.....	45187	Sulphates high.
.....	"	.....	.....	Not over 1.0	.....	45188	Normal.

2 GEORGE V., A. 1912

TABLE

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER, AS GIVEN BY THE VENDOR.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF LONDON

1910.							
Sept. 20	Table Salt	44617	W. J. Calwell, Beeton.	2 lbs.	5	Canadian Salt Co., Windsor.	
" 20	"	44621	J. D. Elliott, Tottenham.	2 "	5	" "	Ely Blain Co., Toronto.
" 26	"	44625	Oman & Mallon, Stratford.	2 "	5	Windsor Salt Co., Windsor.	
" 26	"	44630	A. Beattie & Co.	3 "	30	Jas. Humber & Co., Toronto.	Manufacturer.
" 28	"	44633	Chas. Andrews.	1½ "	5		Geo. Watts & Sons, Brantford.
" 28	"	44635	R. Smith, Seaforth.	2 "	5	Windsor Salt Co., Windsor.	
" 28	"	44641	B. A. McEwing, Clinton.	2 "	5	" "	
" 29	"	44645	O. C. Whitley, Goderich.	2 "	10	Diamond Crystal Salt Co.	A. M. Smith & Co., London.
" 30	"	44649	Popplesstone & Gardner	½ "	5		Masuret & Co.
" 30	"	44652	Henry Christie, Wingham.	2 "	5	Windsor Salt Co., Windsor.	
" 30	"	44655	W. Bone, Wingham.	2 "	5	" "	
Oct. 7	"	44658	Geo. Nairns, Windsor.	1½ "	5	" "	
" 12	"	44661	McCormick & Son.	2 "	5	" "	
" 12	"	44663	W. R. Burcher, St. Marys.	2 "	5	" "	
" 13	"	44665	Barnsdale Trading Co.	2 "	10		Geo. Watts & Co., Brantford.

DISTRICT OF WINDSOR--

Oct. 3	Table Salt	42445	Chute & Smith, St. Thomas.	1 sack	5	Canadian Salt Co., Windsor, Ont.	
" 4	"	42457	C. A. Filby, Aylmer, Ont.	1 "	5	" "	
" 4	"	42463	H. B. Hodgkins	1 "	5	Empire Salt Co., Sarnia	
" 4	"	42466	Young & Caven.	1 "	5	Canadian Salt Co., Sarnia.	
" 5	"	42473	W. T. Gibson, Tillsonburg.	1 "	5	Canadian Salt Co., Windsor, Ont.	
" 5	"	42478	J. A. Trestian.	1 "	5	" "	
" 5	"	42479	F. H. Berdux.	1 "	5	" "	
" 5	"	42480	R. M. Teall	1 "	5	" "	
" 5	"	42482	A. M. Smith & Son, Woodstock, Ont.	1 "	5	Canadian Salt Co., Sarnia.	
" 6	"	42485	Fury & Thompson.	1 "	5	Empire Salt Co., Sarnia	

SESSIONAL PAPER No. 14

SALT—Continued.

Inspector's Report (Is not an expres- sion of opinion).	RESULTS OF ANALYSIS.				Character of Insolu- ble Matter.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Insoluble in water	Sulphates % SO_4	Lime % CaO	Calcium sulphates calculated from SO_4			
	p. c.	p. c.	p. c.	p. c.			
.....	Less than 0.1	.....	.....	.....	.....	44617	Normal.
.....	"	.....	.....	.....	.....	44621	"
.....	"	1.07	0.66	1.52	.....	44625	Sulphates high.
.....	0.76	.....	.....	Not over 1.0	Mg. CO_3 , Alumina & Ca. CO_3	44630	Insoluble matter high
.....	Less than 0.1	0.78	.....	1.11	.....	44633	Normal.
.....	"	.....	.....	Not over 1.0	.....	44635	"
.....	"	.....	.....	"	.....	44641	"
.....	0.80	.....	.....	"	Principally Mg. CO_3	44645	Insoluble matter high
.....	Less than 0.1	.....	.....	"	.....	44649	Normal.
.....	"	.....	.....	"	.....	44652	"
.....	"	.....	.....	"	.....	44655	"
.....	"	.....	.....	"	.....	44658	"
.....	"	0.76	.....	1.08	.....	44661	"
.....	"	.....	.....	Not over 1.0	.....	44663	"
.....	0.57	.....	.....	"	Principally Mg. CO_3	44665	Insoluble matter high

JNO. TALBOT, INSPECTOR.

.....	Less than 0.10	0.82	.....	1.16	.....	42445	Normal.
.....	"	.....	.....	Not over 1.0	.....	42457	"
.....	"	0.74	.....	1.05	.....	42463	"
.....	"	.....	.....	Not over 1.0	.....	42466	"
Windsor table salt purest and best.	"	"	42473	"
.....	"	0.71	1.02	42478	"
.....	"	0.76	1.08	42479	"
.....	"	Not over 1.0	42480	"
.....	"	"	42482	"
.....	"	"	42485	"

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TABLE

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER, AS GIVEN BY THE VENDOR.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF MANITOBA

1910.							
Nov. 15	Table Salt	45855	Mrs. J. R. Wallace Winnipeg.	2 lbs.	5	The Can. Salt Co. Ltd., Windsor Ont.	The Codville Co. Winnipeg.
" 15	"	45856	A. Ingram, Winnipeg.	"	5	" " "	The Jobin Marrin Co., Winnipeg.
" 15	"	45857	M. Feinstein 737 Stella St. Winnipeg.	"	5	The Dom. Salt Co. Ltd. Sarnia Ont.	Weidman Bros., Winnipeg.
" 15	"	45858	Wachnaw, 663 Stella St. Winnipeg.	"	5	The Can. Salt Co. Ltd., Windsor Ont.	Foley Bros. Larsen, Winnipeg.
" 15	"	45859	S. Ginsberg, 664 Stella St. Winnipeg.	"	5	" " "	" " "
" 16	"	45860	J. Fobht, Winnipeg...	"	5	The Dom. Salt Co. Ltd., Sarnia Ont.	A. Macdonald & Co., Winnipeg.
" 16	"	45861	P. Nelson, Winnipeg..	"	5	The Can. Salt Co. Ltd., Windsor Ont.	Unknown.
" 16	"	45862	S. J. Deroche, Winni- peg.	"	5	" " "	" " "
" 16	"	45863	P. Partridge, Higgins Ave. Winnipeg.	"	5	Empire Salt Co. Ltd., Sarnia Ont.	Campbell Bros. & Wilson, Winnipeg
" 16	"	45864	W. H. Morgan, Winni- peg.	"	10	The Western Salt Co. Ltd., Mooretown.	The Codville Co., Winnipeg.
" 16	"	45865	" " "	"	10	Diamond Crystal Salt Co., St. Clair Mich.	" " "
" 17	"	45866	Wm. Mahoney, Winni- peg.	"	10	" " "	Unknown.
" 17	"	45867	O. Hughes, Winnipeg..	"	5	The Can. Salt Co. Ltd., Windsor Ont.	" " "
" 17	"	45868	J. Smith, Winnipeg...	"	5	" " "	" " "
" 17	"	45869	Geo. T. Grant Co. Win- nipeg.	"	5	The Dom. Salt Co. Ltd., Sarnia Ont.	Lang & Co., Winni- peg.
" 17	"	45870	" " "	"	10	Diamond Crystal Salt Co., St. Clair Mich.	A. Macdonald & Co., Winnipeg.
" 17	"	45871	The T. Brown & Co. Winnipeg.	"	5	The Dom. Salt Co. Ltd., Sarnia Ont.	Unknown.
" 18	"	45872	Manitoba Meat Co., Logan Ave. Winnipeg	"	5	" " "	" " "
" 18	"	45873	" " "	"	10	Diamond Crystal Salt Co., St. Clair Mich.	" " "
" 18	"	45874	J. O'Hare, Winnipeg..	"	10	" " "	" " "

DISTRICT OF CALGARY—

Sept. 23	Table Salt	43954	R. V. Shaw & Co., Cal- gary	2 lbs..	5	Can. Salt Co., Ltd., Windsor, Ont.	
" 23	"	43955	Jenkins & Comfort, Calgary.	"	5	" " "	
" 23	"	43956	R. J. Frizzle, Calgary.	"	5	" " "	
" 27	"	43957	Georgeson & Co., Ltd., Calgary.	"	5	" " "	
" 27	"	43958	L. T. Mewburn & Co., Ltd., Calgary.	"	5	" " "	

SESSIONAL PAPER No. 14

SALT—Continued.

Inspector's Report. (Is not an expres- sion of opinion.)	RESULTS OF ANALYSIS.				Character of Insoluble Matter.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Insoluble in water.	Sulphates % SO_4 .	Lime % CaO .	Calcium Sulphate Calculated from SO_4 .			

A. C. LARIVIERE INSPECTOR.

	p. c.	p. c.	p. c.	p. c.			
.....	Less than 0.10	.....	.....	Not over 1.0	.....	45855	Normal.
.....	"	0.76	.....	1.09	.....	45856	"
.....	"	.....	.....	Not over 1.0	.....	45857	"
.....	"	.....	.....	"	.....	45858	"
.....	"	0.83	0.50	1.19	.....	45859	"
.....	"	.....	.....	Not over 1.0	.....	45860	"
.....	"	.....	.....	"	.....	45861	"
.....	"	.....	.....	"	.....	45862	"
.....	"	0.72	0.51	1.03	.....	45863	"
.....	"	0.92	0.54	1.32	.....	45864	"
Shaker Table Salt.	1.66	.....	.....	Not over 1.0	Principally CaCO_3 ...	45865	Insoluble matter high.
.....	1.63	.....	.....	"	"	45866	"
.....	Less than 0.10	.....	.....	"	.....	45867	Normal.
.....	"	0.82	0.46	1.17	.....	45868	"
.....	"	.....	.....	Not over 1.0	.....	45869	"
.....	1.76	.....	.....	"	Principally CaCO_3 ...	45870	Insoluble matter high.
.....	Less than 0.10	.....	.....	"	.....	45871	Normal.
.....	"	.....	.....	"	.....	45872	"
.....	1.43	.....	.....	"	Principally CaCO_3 ...	45873	Insoluble matter high.
.....	1.54	.....	.....	"	"	45874	"

R. W. FLETCHER, INSPECTOR.

.....	Less than 0.10	.....	.....	Not over 1.0	.....	43954	Normal.
.....	"	.....	.....	"	.....	43955	"
.....	"	.....	.....	"	.....	43956	"
.....	"	0.80	.....	1.13	.....	43957	"
.....	"	.....	.....	Not over 1.0	.....	43958	"

2 GEORGE V., A. 1912

TABLE

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER, AS GIVEN BY THE VENDOR.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF CALGARY

1910.							
Sept. 27	Table Salt	43959	G. F. & J. Galt, Ltd., Calgary.	2 lbs..	5	Can. Salt Co., Ltd., Windsor, Ont.	
" 27	"	43960	Campbell, Wilson & Horne, Calgary.	"	5	" "	
" 29	"	43961	O. H. Johnson, Wetaskiwin.	5 lbs..	10	" "	
" 29	"	43962	Fowler & Co., Wetaskiwin.	"	10	" "	
" 30	"	43963	Gilbert Berg, Edmonton.	2 lbs..	5	" "	
" 30	"	43964	L. Levesque, Edmonton.	"	5	Empire Salt Co., Ltd., Sarnia.	
" 30	"	43965	W. Hencher, Edmonton.	"	10	Can. Salt Co., Ltd., Windsor, Ont.	
" 30	"	43966	Aitken Bros., Edmonton.	"	10	" "	
" 30	"	43967	A. Livingston, Edmonton.	"	5	" "	
" 30	"	43968	J. H. Morris & Co., Edmonton.....	"	5	" "	
" 30	"	43969	Hallier & Aldridge, Edmonton.	"	10	" "	
Oct. 1	"	43970	Douglas Bros., Strathcona.	"	10	" "	
" 1	"	43971	A. H. Richards & Co., Strathcona.	"	10	" "	
" 3	"	43972	Acme Co., Ltd., Edmonton	"	10	" "	
" 3	"	43973	Hudson's Bay Co., Edmonton.	"	10	" "	

DISTRICT OF VANCOUVER—

Oct. 11	Table Salt	38044	Gruchy & Carlaw, Vancouver.	2 lbs..	25	Diamond Crystal Salt Co., St Clair, Mich.	
" 11	"	38045	A. C. Bartig, Vancouver.	2 "	10	Canadian Salt Co., Windsor, Ont.	
" 11	"	38046	J. F. May & Co., Vancouver.	2 "	25	Crosse & Blackwell, London, Eng.	
" 11	"	38047	J. A. Dickie, Vancouver.	2 "	25	Cerebos Ltd., London.	
" 11	"	38048	H. A. Edgett & Co., Vancouver.	2 "	10	Union Pacific Salt Co., San Francisco, Cal.	
" 12	"	38049	Kelly, Douglas & Co., Vancouver.	2 "	5	Hutchinson, Kan., Salt Co., Hutchinson, Kan.	
" 13	"	38050	Fraser & McLedd, Kitsilano Vane.	2 "	5	Sarnia Salt Co., Sarnia, Ont.	
" 19	"	38051	Turner's Grocery, Vancouver.	2 "	5	Unknown	

SESSIONAL PAPER No. 14

SALT.—*Continued.*

Inspector's Report. (Is not an expres- sion of opinion.)	RESULTS OF ANALYSIS.				Character of Insoluble Matter.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Insoluble in water.	Sulphates ° SO_4 .	Lime ° CaO .	Calcium Sulphate Calculated from SO_4 .			

R. W. FLETCHER, INSPECTOR—*Concluded.*

	p. c.	p. c.	p. c.	p. c.		
.....	Least than 0.10	.....	.....	Not over 1.0	.....	43959 Normal.
.....	"	.....	.....	"	.....	43960 "
.....	"	.....	.....	"	.....	43961 "
.....	"	0.74	..	1.06	.....	43962 "
.....	"	0.79	.....	1.12	.....	43963 "
.....	"	0.70	.....	1.00	.....	43964 "
.....	"	0.81	0.50	1.15	.....	43965 "
.....	"	0.85	0.46	1.20	.....	43966 "
.....	"	0.70	0.48	1.00	.....	43967 "
.....	"	0.75	.....	1.08	.....	43968 "
.....	"	.....	.....	Not over 1.0	.....	43969 "
.....	"	.....	.....	"	.....	43970 "
.....	"	.....	.....	"	.....	43971 "
.....	"	.....	.....	"	.....	43972 "
.....	"	0.79	..	1.12	.....	43973 "

J. F. POWER, INSPECTOR.

.....	1.50	.....	.....	.....	Principally CaCO_3 ...	38044 Insoluble matter high.
.....	Less than 0.10	.....	.....	.....	.....	38045 Normal.
.....	1.79	2.09	0.34	.....	Al. Ca and Mg. car- bonates.	38046 Insoluble matter high.
.....	3.02	0.79	.....	1.12	Principally alumina phosphate.	38047 "
Contains mixed phosphates.	Less than 0.10	.....	.....	Not over 1.0	.....	38048 Normal.
.....	"	.....	.....	"	.....	38049 "
.....	"	.....	.....	"	.....	38050 "
Peerless brand....	"	.....	.....	"	.....	38051 "

TABLE

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VICTORIA—

1910.							
Oct.	12	Table Salt	44965 Windsor Grocery Co., 2 lbs.. Victoria, B.C.	10	Canadian Salt Co., Windsor, Ont.		
"	12	"	44966 The West End Grocery 2 " Co., Ltd.	10	" "		
"	12	"	44967 Saunders Grocery Co., 2 " Ltd., Victoria, B.C.	10	Diamond Crystal Salt Co., St. Clair, Mich.		
"	13	"	44968 Copas & Young, Vic- 2 " toria, B.C.	5	Union Pacific Salt Co., San Francisco, Cal.		
"	13	"	44969 " " .. 1 tin..	20	Cerebos Ltd., London, Eng.		
"	13	"	44970 H. O. Kirkham, Vic- 2 lbs.. toria, B.C.	15	Hutchinson Kansas Salt Co., Hutchinson, Kansas.		
"	17	"	44971 E. G. Bailey, Victoria, 2 " B.C.	15	.....	Simon Leiser & Co., Victoria, B.C.	
"	17	"	44972 F. E. Plummer, Vic- 2 " toria, B.C.	10	.....	Hudsons Bay Co., Victoria, B.C.	
"	17	"	44973 Erskine & Co., Vic- 2 " toria, B.C.	5	.....	R. P. Rithet & Co., Victoria, B.C.	
"	17	"	44974 Dixi H. Ross & Co., 2 " Victoria, B.C.	10	Sarnia Salt Co., Sarnia, Ont.		
"	18	"	44975 " " .. 2 "	15	Geo. Hamlett & Sons, Ltd., Liverpool, Eng.		
"	18	"	44976 Harrison & McDonald, 2 " Victoria, B.C.	10	.....	H. Moss, Victoria, B.C.	
"	18	"	44977 Acton Bros., Victoria, 2 " B.C.	19	.....	W. H. Malkin, Van- couver, B.C.	
"	18	"	44978 W. B. Hall, Victoria, 2 " B.C.	10	.....	Simon Leiser & Co., Victoria, B.C.	
"	19	"	44979 L. Dickinson, Victoria, 2 " B.C.	5	.....	R. P. Rithet & Co., Victoria, B.C.	
"	19	"	44980 J. Renouf, Victoria, 2 " B.C.	5	.....	Wilson Bros..... Victoria, B.C.	
"	19	"	44981 Cash Grocer, Victoria, 2 " B.C.	16	.....	Simon Leiser & Co. Victoria, B.C.	
"	19	"	44982 E. E. Kaufman, Vic- 2 " toria, B.C.	5	.....	Hudsons Bay Co, Victoria, B.C.	
"	19	"	44983 Woods & White, Vic- 2 " toria, B.C.	5	.....	Simon Leiser & Co., Victoria, B.C.	
"	19	"	44984 A. Pool, Victoria, B.C. 2 "	5	.....	H. Moss, Victoria, B.C.	

SESSIONAL PAPER No. 14

SALT—*Concluded.*

Inspector's Report (Is not an expres- of opinion).	RESULTS OF ANALYSIS.				Character of Insolu- ble Matter.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Insoluble in water.	Sulphates % SO_4 .	Lime % CaO .	Calcium sulphates calculated from SO_4 .			

D. O'SULLIVAN, INSPECTOR.

.....	p. c. Less than 0·10	p. c.	p. c.	p. c. Not over 1·0	.....	44965	Normal.
.....	"	0·70	.....	1·0	.....	44966	"
Shaker Table Salt.	1·71	.....	.....	Not over 1·0	.....	44967	Insoluble matter high
Banner " ..	Less than 0·10	.....	.....	"	.....	44968	Normal.
Cerebos " ..	3·00	0·85	..	1·20	.....	44969	Insoluble matter high.
R.S.V.P. " ..	Less than 0·10	.....	.....	Not over 1·0	.....	44970	Normal.
Shaker " ..	1·62	.....	.....	"	.....	44971	Insoluble matter high.
.....	Less than 0·10	0·72	.....	1·02	.....	44972	Normal.
.....	"	.....	.....	Not over 1·0	.....	44973	"
Beaver Brand.....	"	.....	.....	"	.....	44974	"
The Premier Brand Pure Table Salt.	"	0·94	0·52	1·34	.....	44975	"
.....	"	.....	.....	Not over 1·0	.....	44976	"
.....	"	.....	.....	"	.....	44977	"
.....	"	.....	.....	"	.....	44978	"
W. A. C. O. Brand	"	0·86	0·53	1·22	.....	44979	"
.....	"	0·74	.....	1·05	.....	44980	"
.....	"	0·74	.....	1·05	.....	44981	"
.....	"	1·19	0·65	1·69	.....	44982	Sulphates high.
Liverpool Fine....	"	1·13	0·61	1·61	.....	44983	"
Hickson's Factory filled Salt.	"	.....	.....	Not over 1·0	.....	44984	Normal.

APPENDIX P.

BULLETIN No. 221—ARSENIC AS AN IMPURITY IN DRUGS.

(EFFERVESCENT PHOSPHATE OF SODA).

OTTAWA, December 10, 1910.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR,—Since the historic case of Arsenical beer (Manchester, Eng., 1900), where it was found that the malt used had become contaminated with dangerous amounts of arsenic through having been dried in the fumes from pyritous coal; while glucose used as an adjunct in beer manufacture contained arsenic from sulphuric acid, used in hydrolysis of starch,—many investigations of drugs have been made, specially directed towards determinations of their content of arsenic.

There is no question of intentional adulteration in this matter, but arsenic is so widely distributed in nature, and especially so in the materials employed in the manufacture of sulphuric acid—which latter is, in its turn, a principal agent in many chemical manufactures that, unless special precautions are taken, more than negligible traces of arsenic may occur in very many drugs.

Bulletin 181 of this department, contains the results of work upon 448 samples (Sulphates of magnesia and soda, and phosphate of soda) examined in June, 1909—Below is a synopsis of results :—

	ARSENIC.				Total. Samples.
	None.	Less than one-half milligram per hundred grams.	Less than one milli- gram per hundred grams.	More than one milli- gram per hundred grams.	
Sulphate of magnesia.	120	26	4	0	150
Sulphate of soda.	99	35	10	6	150
Phosphate of soda.	117	25	6	0	148
	336	86	20	6	448

2 GEORGE V., A. 1912

Bulletin 202 (March, 1910) reports upon 151 samples of Borax ; of which

1 sample contained 1.0 milligram per 100 grammes.

7	"	"	0.5	"	"	"
3	"	"	0.4	"	"	"
1	"	"	0.3	"	"	"
4	"	"	0.2	"	"	"

The accompanying report deals with an examination of 134 samples of effervescing phosphate of soda, purchased throughout Canada. Of this number, 131 samples (98 per cent of the collection) have been found entirely free from arsenic, or containing quite negligible traces. Of three samples which gave distinct reaction for arsenic, one sample contained one part in 100,000, and two samples, contained half of this amount

The smallest medicinal dose of arsenic fixed by the British Pharmacopœia is $\frac{1}{60}$ of a grain ; (0.001 gramme). This amount is contained in 100 grammes (about 3 ounces) of the sample 36492. Of this drug $\frac{1}{4}$ to $\frac{1}{2}$ ounce is the usual dose.

I beg to recommend publication of this report as Bulletin 221.

I have the honour to be, sir,
Your obedient servant,

A. MCGILL,
Chief Analyst.

BULLETIN No. 221.—EFFERVESCENT PHOSPHATE OF SODA.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).	Results of Analysis. Arsenic per 100 grams.	
				Quantity.	Cents.	Manufacturer.			Furnisher.
DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.									
1910.									
Oct. 17	Eff. Phosphate of Soda.	42160	Nat. Drug & Chem. Co., Halifax, N.S.	4 oz.	25	Vendors		None.	
" 18	"	42161	C. E. Huggins, Halifax, N.S.	"	25	H. K. Wampole Co., Perth, Ont.	Manufacturers	"	
" 18	"	42162	J. St. Clair Coombes, Halifax, N.S.	"	25	Moyes Chemical Co., Toronto.	"	"	
" 18	"	42163	Irwin & Sons, Halifax, N.S.	"	35	H. K. Wampole, Perth, Ont.	Nat. Drug & Chem. Co., Halifax.	"	
" 18	"	42164	M. D. Logan, Halifax, N.S.	"	25	Nat. Drug & Chem. Co., Halifax.	Manufacturers	"	
" 19	"	42165	Brown Bros. & Co., Halifax, N.S.	"	30	H. K. Wampole, Perth, Ont.	"	"	
" 19	"	42166	John Rawley, Halifax, N.S.	"	25	"	"	"	
" 19	"	42167	C. A. Barnstead, Halifax, N.S.	"	50	Jno. Wyeth & Bro., Philadelphia.	Lymans Ltd, Montreal Laboratory, Montreal.	"	
" 20	"	42168	G. C. McDougall, Kentville, N.S.	"	25	Nat. Drug & Chem. Co., Halifax.	Manufacturers	"	
" 20	"	42169	H. C. Wilson, Windsor, N.S.	"	25	H. K. Wampole, Perth, Ont.	"	"	

BULLETIN No. 221. EFFERVESCENT PHOSPHATE OF SODA—Continued.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)	Results of Analysis. — Arsenic per 100 grams.
				Quantity.	Cents.			

DISTRICT OF PRINCE EDWARD ISLAND—THEO. MOORE, INSPECTOR.								
1910.								
Sept. 10	Eff. Phosphate of Soda.	45931	E. A. Foster, Charlottetown....	4 lb.	20	Toronto Pharmaceutical Co., Toronto.		None.
" 10	"	45932	Geo. E. Hughes, Charlottetown...	"	20	H. K. Wampole, Perth, Ont.		"
" 10	"	45933	McKinnon Drug Co., Charlottetown.	"	15	Wyeth Bros., Philadelphia.		"
" 10	"	45934	Reddin Bros., Charlottetown.....	"	15	H. K. Wampole, Perth, Ont.		"
" 10	"	45935	J. G. Jamieson, Charlottetown...	"	20	Parke, Davis & Co., Walkerville.		"
" 13	"	45936	Johnson & Johnson, Charlottetown.	"	20	H. K. Wampole, Perth, Ont.		"
" 23	"	45937	Dr. F. W. Jardine, Kensington...	1 bot.	25	Nat. Drug & Chem. Co., St. John, N.S.	Contains 50% phosphate sodium	"
" 24	"	45938	McFadyen & McLellan, Summerside.	1 lb.	20	Parke Davis, Walkerville.		"
" 24	"	45939	McNeill Drug Co., Summerside...	1 bot.	25	H. K. Wampole, Perth, Ont.		"
" 27	"	45940	Gillis & Sons, Charlottetown...	"	35	Jno. Wyeth & Bro., Philadelphia.		"

BULLETIN No. 221.—EFFERVESCENT PHOSPHATE OF SODA—Continued.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cost.	Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Results of Analysis. — Arsenic per 100 grams.
						Manufacturer.	Furnisher.		
DISTRICT OF QUEBEC—E. BELAND, INSPECTOR.									
1910.									
Sept. 12	Eff. Phosphate of Soda.	36491	Joseph Masson, 809 rue St. Valier, Quebec.	1 lb.	40	Chas. E. Frost & Co., Montreal.			None.
" 13	"	36492	A. Martineau, 732 rue St. Valier, Quebec.	1 1/2 "	30	" "			1 milligram.
" 14	"	36493	W. Brunet et Cie, 139 rue St. Joseph, Quebec.	1 1/4 "	18	" "			None.
" 14	"	36494	" " " "	1 1/4 "	40	John Wyeth & Bro., Lyman's, Philadelphia, treat.	Ltd., Montreal.		"
" 14	"	36495	" " " "	1 1/4 "	25	Parke Davis & Co., Walkerville.			"
" 14	"	36496	" " " "	1 1/4 "	27	S. K. Wampole & Co., Perth, Ont.			"
" 15	"	36497	Estate Geo. P. Plamondon, 122 1/2 rue St. Joseph, Quebec.	1 1/4 "	50	Parke Davis & Co., Walkerville.			"
" 15	"	36498	Ludger E. Martel, 91 rue St. Joseph, Quebec.	1 1/4 "	30	" "			"
" 15	"	36499	" " " "	1 1/4 "	45	Wyeth Bros., Philadelphia.			"
" 15	"	36500	" " " "	1 1/4 "	35	H. K. Wampole & Co., Perth, Ont.			"

SESSIONAL PAPER No. 14

DISTRICT OF ST. HYACINTHE—J. J. COSTIGAN, ACTING-INSPECTOR.

Sept. 17	Eff. Phosphate Soda.	41033	Dr. Viger, St. Hyacinthe	1 lb.	25	.....	None.
" 17	"	41034	J. H. E. Brodeur, St. Hyacinthe..	1 bot.	25	Nat. Drug & Chem. Co., Ltd.	"
" 19	"	41035	W. H. Griffiths, Sherbrooke.....	"	25	Parke Davis & Co.....	"
" 19	"	41036	A. E. DuBerger, "	"	50	Jno. Wyeth & Bro.....	"
" 20	"	41037	J. C. Sutherland, Richmond, P.Q.	1 lb.	25	Chas. E. Frosst & Co.....	"
" 20	"	41038	J. C. Bedard "	1 bot.	50	Jno. Wyeth & Bro.....	"
Oct. 4	"	41039	Dr. C. P. Verdun, Granby... ..	"	25	Nat. Drug & Chem. Co., Ltd.	"
" 5	"	41040	T. H. Welch, Waterloo	"	25	Nat. Drug & Chem. Co., Ltd.	"
" 5	"	41041	A. Vaillancourt "	"	35	Parke Davis & Co.....	"
" 5	"	41042	Wright & Co., St. Johns, P.Q.	"	35	Chas. E. Frosst & Co., Montreal.	"

DISTRICT OF MONTREAL—J. J. COSTIGAN, INSPECTOR.

Sept. 15	Eff. Phosphate Soda.	40748	Quenneville & Guerin, 2,002 St. Lawrence B., Montreal.	1 bot.	35	H. K. Wampole & Co., Perth, Ont.	None.
" 15	"	40749	J. E. Bergeron, M.D., 334 Clark St., Montreal.	2 "	50	Parke Davis & Co.....	"
" 15	"	40750	F. E. Morgan, 181 Fairmount, Montreal.	1 "	25	Chas. E. Prosst & Co	"
" 16	"	40751	Jno. J. Weinfield, 458 St. Lawrence B., Montreal.	$\frac{1}{4}$ lb.	25	.....	"
" 16	"	40752	Henry R. Gray, 198 St. Lawrence B., Montreal.	1 bot.	25	Nat. Drug & Chem. Co. of Canada, Ltd.	"
" 22	"	40753	F. E. Morgan, 43 Prince Arthur E., Montreal.	$\frac{1}{4}$ lb.	25	Nat. Drug & Chem. Co. of Can., Ltd.	"
" 22	"	40754	Romeo Casgrain, 440 St. Catherine E., Montreal.	1 bot.	50	Jno. Wyeth & Bro.....	"
" 22	"	40755	J. H. Nault, 42 St. Catherine E., Montreal.	$\frac{1}{4}$ lb.	25	Parke Davis & Co. ..	"
" 22	"	40756	N. Bourque, 20 St. Catherine W., Montreal.	1 bot.	25	Nat. Drug & Chem. Co. of Can., Ltd.	"
" 22	"	40757	Nat. Pat. Medicine Co., 294 St. Lawrence B., Montreal.	1 "	25	Wampoles ..	"

BULLETIN NO. 221.—EFFERVESCENT PHOSPHATE OF SODA—Continued.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.		Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Results of Analysis. Arsenic per 100 grams.
			Quantity.	Cents.			Manufacturer.	Furnisher.		
1910.										
Sept. 9	Eff. Phosphate Soda.	43121	S. E. Johnston, Arnprior	1 lb.	20		Nat. Drug & Chem. Co., Ltd.	Manufacturers		None.
" 13	"	43122	E. H. Elridge, Vankleek Hill	"	20		Wyeth Bro.	Lymans, Ltd., Montreal.	Wyeth's.	"
" 14	"	43123	E. A. Girdwood, Perth, Ont.	"	20		H. K. Wampole & Co., Perth, Ont.	Manufacturers		"
" 21	"	43124	James Clark, Renfrew	"	20		Wyeth Bro.	Lymans, Ltd., Montreal.		"
" 27	"	43125	W. F. Garland, Ottawa	"	25		H. K. Wampole & Co., Ltd., Perth, Ont.	Manufacturers	Wampole's.	"
" 27	"	43126	R. M. Arbutnot, Ottawa	"	20		Wyeth Bro.	Unknown		"
" 28	"	43127	D. Belanger, druggist, Hull, P.Q.	"	15		Nat. Drug & Chem. Co., Ltd.	Manufacturers		"
" 28	"	43128	The Ottawa Nat. Pharmacy Co., Ltd., Dalhousie st., Ottawa	"	19		Nat. Drug & Chem. Co., Ltd.	"		Less than 5a milligram.
" 28	"	43129	J. A. Musgrove, Ottawa	"	30		Wyeth Bro.	Lymans, Ltd., Montreal.		None.
" 28	"	43130	Allen & Cochrane, Ottawa	"	15		Parke Davis & Co.	Manufacturers		"

DISTRICT OF OTTAWA—J. A. RICEY, INSPECTOR.

DISTRICT OF KINGSTON—JAS. HOGAN, INSPECTOR.

Oct.	4	Eff. Phosphate of Soda.	46544	R. Hoag, Kingston	1 lb.	25			Moyes Chem. Co., Toronto.		None.
"	4	"	46545	C. S. Prouse, Kingston	"	15			"		"
"	4	"	46546	A. P. Chown, Kingston	"	15			Toronto Pharmaceutical Co.		"
"	4	"	46547	W. W. Gibson, Kingston	3 bots.	75			H. Wampole, Perth, Ont.		"
"	4	"	46548	L. T. Best, Kingston	1 lb.	25					"
"	10	"	46549	A. C. Greens, Belleville	"	15			Parke Davis Co., Walkerville.		"
"	10	"	46550	J. S. McKnowns, Belleville	"	20			Wampole, Perth		"
"	11	"	46551	McDermide & Jury, Peterboro	3 bots.	75			Parke Davis Co., Walkerville.		"
"	11	"	46552	Warne Drug Co., Peterboro	1 lb.	20			Wampole		"
"	11	"	46553	W. Madill, Peterboro	"	15			Moyes Chem. Co.		"

DISTRICT OF TORONTO H. J. DAGGER, INSPECTOR.

Sept.	13	Eff. Phosphate of Soda.	45159	R. W. W. McIntyre, 388 Queen St. W., Toronto.	4 oz.	25			H. K. Wampole & Co., Ltd., Perth, Ont.		None.
"	13	"	45160	G. W. Ferrier, 233 College St., Toronto	1 "	25			The Moyes Chemical Co., Ltd., Toronto.		"
"	14	"	45161	The F. E. Karn Co., Ltd., Queen St. E., Toronto.	4 "	35			Jno. Wyeth & Bros., Philadelphia.		"
"	16	"	45162	W. J. Nichol, 170 King St. E., Toronto.	4 "	35			Toronto Pharmaceutical Co., Toronto.		"
"	16	"	45163	C. P. Plater, 1340 Queen St. W., Toronto.	4 "	25			Parke Davis & Co., Walkerville.		"
"	20	"	45164	C. J. Cunningham, 426 Kings St. W., Toronto.	4 "	25			Nat. Drug & Chemical Co., Hamilton.		"
"	20	"	45165	Hawkins Ltd., 643 Barton St., Toronto.	4 "	20			Nat. Drug & Chemical Co., Hamilton.		"
"	22	"	45166	Dr. Lang and J. J. Gilchrist, Owen Sound.	1 "	20			H. K. Wampole & Co., Ltd., Perth, Ont.		"
"	23	"	45167	D. A. Cameron & Co., Owen Sound	4 "	25			Lymans Ltd., Montreal and Toronto.		"
"	26	"	45168	J. E. Willis, Whitby	4 "	20			E. J. West & Co., Toronto.		"

BULLETIN No 221—EFFERVESCENT PHOSPHATE OF SODA —Continued.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).	Results of Analysis. — Arsenic per 100 grams.
				Quantity.	Cents.			
DISTRICT OF LONDON—T. KIDD, INSPECTOR.								
1910.								
Sept. 20	Eff. Phosphate of Soda.	44618	D. S. Marrow, Beeton.....	1 lb.	20	Nat. Drug Co., Hamilton .....	.....	None.
" 26	"	44628	E. A. Robertson. Stratford.	"	20	Moyes Chemical Co., Toronto. ....	.....	"
" 28	"	44637	Chas. Aberhart, Seaforth	"	25	Parke Davis & Co., Walkerville. ....	.....	"
" 28	"	44639	W. S. R. Holmes, Clinton.....	"	25	Parke Davis & Co., Walkerville. ....	.....	"
" 29	"	44643	Nat. Drug Co., Toronto.....	"	15	Nat. Drug Co., Toronto. Moyes Chemical Co., Toronto. ....	.....	"
" 29	"	44644	H. C. Dunlop, Goderich,.	4	25	Moyes Chemical Co., Toronto. ....	.....	"
" 30	"	44654	Fred A. Hind, Wingham.....	"	25	Lyman Bros., & Co., Toronto. ....	.....	"

DISTRICT OF WINDSOR—JOHN TALBOT, INSPECTOR.

Oct.	3	Eff. Phosphate of Soda.	42443	F. A. Lemon & Co., St. Thomas.	6 oz.	25	.....	Moyes Chemical Co., Toronto.	.....	None.
"	3	"	42447	W. W. Taylor, St. Thomas.	"	25	Moyes Chemical Co., Toronto.	.....	"	"
"	3	"	42453	R. E. Crane, St. Thomas.	"	20	.....	Canada Pharmaceutical Co.	.....	"
"	3	"	42453	J. E. Richards & Co., Aylmer.	4 lb.	15	Moyes Chemical Co., Toronto.	Moyes	.....	"
"	4	"	42467	Em. A. Campbell, Aylmer.	6 oz.	20	.....	Shuttleworth Chemical Co., Toronto.	.....	"
"	4	"	42470	W. A. McCollom, Tilsonburg.	"	25	.....	National Drug Co., London.	National	"
"	5	"	42475	W. S. McDonald, Tilsonburg.	"	30	.....	Drug Trading Co., Toronto.	.....	"
"	6	"	42484	J. S. Pepper, Woodstock.	"	40	Parke Davis, Walkerville.	.....	.....	"

DISTRICT OF CALGARY—R. W. FLETCHER, INSPECTOR.

Sept.	22	Eff. Phosphate of Soda.	43974	National Drug & Chemical Co., Calgary.	1 bot.	20	Parke Davis & Co., Walkerville.	.....	.....	"
"	23	"	43975	R. Harvey, Calgary.	"	50	"	.....	.....	"
"	23	"	43976	Bruce Drug Store, Calgary.	"	50	H. K. Wampole & Co., Perth.	.....	.....	"
"	24	"	43977	Oliver Bros., Calgary.	"	50	Parke Davis & Co.	.....	.....	"
"	24	"	43978	McDermid Drug Co., Ltd., Calgary.	"	50	"	.....	.....	"
"	29	"	43979	H. L. Higgs, Wetaskiwin.	"	50	.....	.....	.....	"
"	29	"	43980	J. H. Walker, Wetaskiwin.	"	50	C. Frost & Co., Montreal.	.....	.....	"
"	30	"	43981	E. M. Carpenter, Edmonton.	"	50	J. Wyeth & Bro., Philadelphia.	.....	.....	"
"	30	"	43982	Lavell Pharmacy, Edmonton.	"	35	Nat. Drug Co., Ltd.	.....	.....	"
"	30	"	43983	J. H. Lives, Edmonton.	"	35	Parke Davis & Co., Walkerville.	.....	.....	"

BULLETIN No. 221—EFFERVESCENT PHOSPHATE OF SODA—Continued.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)	Results of Analysis. Arsenic per 100 Grams.
				Quantity.	Cent.			
DISTRICT OF VANCOUVER J. F. POWER, INSPECTOR.								
1910.								
Oct.	6 Eff. Phosphate of Soda.	38034	D. D. Curtis & Co., New Westminster.	4 lb.	35	Parke, Davis & Co., Toronto.		None.
"	"	38035	F. A. Muir & Co., New Westminster.	"	35	National Drug & Chemical Co.		"
"	"	38036	Post Office Drug Store, Vancouver.	"	30	H. Wampole & Co., Perth		"
"	"	38037	Marrett & Reid, Vancouver.	"	75	Jno. Wyeth & Co., Montreal.		"
"	"	38038	Vancouver Drug Co., Vancouver.	"	35	Chas. E. Frosst & Co.		"
"	"	38039	H. W. Ferguson & Co., Vancouver.	"	40	Lorimer & Co., London, Eng.		"
"	"	38040	Campbell Burns Drug Co., Vancouver.	"	50	Henderson Bros., Vancouver.		"
"	"	38041	Woods Pharmacy, Vancouver.	"	75	W. R. Warner & Co., Philadelphia.		"
"	"	38042	McDuffee Bros., Vancouver.	"	50	Jno. Wyeth & Bro., Philadelphia.		"
"	"	38043	David Spencer, Ltd., Vancouver.	"	35	Chas. E. Frosst & Co.		1/2 anilligram

SESSIONAL PAPER No. 14

DISTRICT OF VICTORIA—D. O'SULLIVAN, INSPECTOR.

Oct. 14—20	20	Eff. Phosphate of Soda.	45000	D. E. Campbell, Victoria	1	"	25	Lyman Sons, Ltd., Mont real.	.....	None.
"	20	"	47501	Jno. Cochrane, Victoria	1	"	25	National Drug & Chemi cal Co., Ltd., Victoria.	.....	"
"	20	"	47502	W. S. Terry, Victoria	1	"	50	Jno. Wyeth & Bro., Phil- adelphia.	.....	"
"	20	"	47503	Hall & Co., Victoria	1	"	35	Parke, Davis & Co., Walkerville.	.....	"
"	20	"	47504	Wm. Jackson & Co., Victoria	1	"	35	Lymans, Ltd., Montreal.	.....	"
"	20	"	47505	F. J. Williams, Victoria	1	"	50	Jno. Wyeth & Bro., Phil- adelphia.	.....	"
"	20	"	47506	Geo. A. Fraser, Victoria	1	"	35	H. K. Waupole & Co., Perth.	.....	"
"	24	"	47507	Neil Drug & Chemical Co., Vic- toria.	1	"	25	National Drug & Chemi- cal Co., Montreal.	.....	"
"	24	"	47508	Dean & Hiscocks, Victoria	1	"	40	Parke, Davis & Co., Walkerville.	.....	"
"	24	"	47509	B. C. Drug Co., Ltd., Victoria	1	"	25	"	.....	"

APPENDIX Q.

BULLETIN No. 222—CREAM OF TARTAR.

OTTAWA, December 12, 1910.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR,—I beg to hand you a report upon 339 samples of Cream of Tartar, purchased throughout the Dominion in September and October of this year.

Instructions were given to our inspectors to distinguish between samples obtained from druggists, and those obtained from grocers. I have arranged the report accordingly; and table I shows the results of examination of 130 samples obtained from druggists; while table II shows the results of examination of 209 samples from grocery shops.

Cream of Tartar has been made the subject of study on nine different occasions since 1887. It has always been found to show more or less adulteration, in the sense of having another article of less value, and of doubtful wholesomeness, substituted for it. The most usual adulterant of this kind is a mixture of burnt alum, acid-phosphate of lime and sulphate of lime, with starch. This form of adulteration is distinctly on the decline, and the present report shows only 25 samples, or about 7 per cent of the total collection, to be thus adulterated.

The only legal standard for Cream of Tartar now in force is that fixed by the British Pharmacopœia, which requires that Cream of Tartar shall contain 97·5 per cent of bitartrate of potash. Only 26 per cent of the samples now reported reach this high standard. I have in a previous report (See Bull. 195) made the suggestion that a distinction be recognized between Cream of Tartar, and purified or refined Cream of Tartar, this latter being the article as defined by the Pharmacopœia.

This appears to be reasonable, from the fact that the crude materials, (argols, &c.,) from which the Cream of Tartar is prepared, are so restricted in their origin as to make the market easily controllable, and to place this article out of the reach of many grinders, who can only avail themselves of the partly refined product. This is usually of about 90 to 95 per cent bitartrate, the remainder being neutral tartrate of lime, with a small percentage of sulphate.

While not possessing the absolute value of refined Cream of Tartar, it cannot be described as harmful to health, and it is in fact, the substance which has been known as Cream of Tartar for more than a century, and from whose use as a baking material, Cream of Tartar has acquired its vogue.

Sixty eight (68) per cent of the samples now reported, are genuine Cream of Tartar, in the sense that they are not substitutes for the article, although they do not reach the pharmacopœal standard. I think it not unreasonable that these should be recognized as genuine, provided that the content of bitartrate of potash, which alone gives them a value, reach a prescribed minimum limit.

So far as my experience goes, I feel justified in recommending a limit of 90 per cent of bitartrate for commercial Cream of Tartar. Samples containing less than this amount, should be distinctly labelled and sold as of *low grade*. For purposes of this

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report, I have classified the samples herein referred to, according to the definition above given. The report may be summarized thus :—

	SAMPLES ANALYZED.		PERCENTAGE.		Percentage on total.
	Druggists.	Grocers.	Druggists.	Grocers.	
Total samples.....	130	209			
Up to B. P. Standard.....	31	57	23	27	26
Up to Commercial Standard ...	83	117	64	56	60
Below " ".....	9	17	6	8	7
Adulterated.....	7	18	5	9	7

It will be noted that Cream of Tartar as sold by Canadian druggists is not a better article than is to be found in grocery shops. This is certainly matter for surprise, since the druggists should keep in view the pharmacopœal standard of purity.

If a distinction is legally made between Cream of Tartar of commercial quality and refined Cream of Tartar of Pharmacopœal quality, there will naturally come about an adjustment of prices ; because a 90 per cent article is truly worth only nine-tenths the value of an article of 100 per cent purity.

I beg to recommend publication of this report as Bulletin No. 222.

I have the honour to be, sir,
Your obedient servant,

A. MCGILL,
Chief Analyst.

NOTE 1. Owing to the destruction by fire of the laboratories of the Inland Revenue Department on the 4th January, there has been some delay in publishing this Bulletin.

NOTE 2. In the case of samples of Lemon Oil, Nos. 43631 and 43633 reported in Bulletin 198. and there stated to yield only 2-10ths of 1 per cent of Lemon Oil, the accuracy of this finding has been questioned. Under ordinary circumstances it would be possible to check the analyses by work done upon the duplicate samples in the hands of the vendors, or upon those fyled with the Hon. the Minister of Inland Revenue, under Section 15 (2) of the Adulteration Act.

The first mentioned duplicates were unfortunately lost in the mails, and the last were destroyed by the fire of the 4th January. It is considered proper to state the facts of the case, as now done.

2 GEORGE V., A. 1912

BULLETIN No. 222—CREAM OF TARTAR—
TABLE

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	COST.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NOVA SCOTIA—

1910								
Oct. 17	Cream of Tartar.	42118	Nat. Drug & Chem. Co., Halifax, N.S.	3 pkg.	20	Vendors...		Sovereign brand
" 17	"	42124	Jas. D. Walsh, Halifax, N.S.	8 oz.	20	Unknown	Forsyth, Sutcliffe & Co., Halifax.	
" 17	"	42126	J. McD. Taylor, Halifax, N.S.	8 "	20	Nat. Drug and Chem. Co., Halifax.	Manufacturers	
" 17	"	42127	A. H. Buckley, Halifax, N.S.	8 "	20	"	"	
" 18	"	42131	C.E. Huggins, Halifax, N.S.	8 "	20	"	"	
" 18	"	42134	J. St. Clair Coombs, Halifax, N.S.	8 "	20	"	"	
" 18	"	42135	Irwin & Sons, Halifax, N.S.	8 "	20	"	"	
" 18	"	42136	M. D. Logan, Halifax, N.S.	8 "	15	"	"	
" 20	"	42139	J. D. Clark, Kentville, N.S.	8 "	20	"	"	
" 20	"	42140	H.C. Wilson, Windsor, N.S.	8 "	20	Lymans, Ltd., Montreal.	"	
" 20	"	42141	R. B. Dakin, Windsor, N.S.	8 "	20	Unknown		

DISTRICT OF PRINCE EDWARD ISLAND—

Sept. 10	Cream of Tartar.	45901	E. A. Foster, Charlottetown.	$\frac{1}{2}$ lb.	20	Nat. Drug Co., Halifax.		
" 10	"	45902	G. E. Hughes, Charlottetown.	$\frac{1}{2}$ "	20	Lyman & Sons, Montreal.		
" 10	"	45903	Gillis & Sons, Charlottetown.	$\frac{1}{2}$ "	25	Nat. Drug Co., Halifax.		
" 12	"	45904	McKinnon Drug Co., Charlottetown.	$\frac{1}{2}$ "	20	Lymans, Ltd., Montreal.		
" 12	"	45905	Reddin Bros., Charlottetown.	$\frac{1}{2}$ "	20	"		
" 12	"	45906	Johnson & Johnson, Charlottetown.	$\frac{1}{2}$ "	20	Carvell Bros., Charlottetown.		
" 13	"	45907	G. A. B. McDonald, Charlottetown.	$\frac{1}{2}$ "	20	Lymans, Ltd., Montreal.		
" 23	"	45908	Keir & McFadyen, Kensington.	$\frac{1}{2}$ "	20	Nat. Drug Co., Halifax.		
" 24	"	45909	P. N. Enman, Summerside.	$\frac{1}{2}$ "	20	Unknown		
" 24	"	45910	A. W. P. Gourlie, Summerside.	$\frac{1}{2}$ "	20	Nat. Drug Co., St. John, N.B.		

SESSIONAL PAPER No. 14

AS PURCHASED IN DRUG SHOPS.

I.

RESULTS OF ANALYSIS.

Preliminary Examination.				Determinations.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
Starch.	Sulphates.	Phosphates.	Acidity.	Starch.	Kind.	Alumina.	Phosphoric Acid.	Sulphuric Acid.	Calcium Oxide.	Percentage of Purity.	

R. J. WAUGH, INSPECTOR.

p. c.	p. c.	p. c.	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.		
None.	None.	None.	485	.....	.....	.....	.....	.....	.....	91.18	42118	Commercial standard.
"	"	"	485	.....	.....	.....	.....	.....	.....	91.18	42124	" "
"	"	"	460	.....	.....	.....	.....	.....	.....	86.48	42126	Low grade.
"	"	"	485	.....	.....	.....	.....	.....	.....	91.18	42127	Commercial standard.
"	"	"	485	.....	.....	.....	.....	.....	.....	91.18	42131	" "
"	"	"	480	.....	.....	.....	.....	.....	.....	90.24	42134	" "
"	"	"	480	.....	.....	.....	.....	.....	.....	90.24	42135	" "
"	"	"	475	.....	.....	.....	.....	.....	.....	89.30	42136	" "
"	"	"	480	.....	.....	.....	.....	.....	.....	90.24	42139	" "
"	"	"	530	.....	.....	.....	.....	.....	.....	99.64	42140	Up to B. P. standard.
"	"	"	480	.....	.....	.....	.....	.....	.....	90.24	42141	Commercial standard.

THEO. MOORE, INSPECTOR.

None.	None.	None.	505	.....	.....	.....	.....	.....	.....	94.94	45901	Commercial standard.
"	"	"	532	.....	.....	.....	.....	.....	.....	100.00	45902	Up to B. P. standard.
"	"	"	485	.....	.....	.....	.....	.....	.....	91.18	45903	Commercial standard.
"	"	"	532	.....	.....	.....	.....	.....	.....	100.00	45904	Up to B. P. standard.
"	"	"	532	.....	.....	.....	.....	.....	.....	100.00	45905	" "
"	"	"	480	.....	.....	.....	.....	.....	.....	90.24	45906	Commercial standard.
"	"	"	532	.....	.....	.....	.....	.....	.....	100.00	45907	Up to B. P. standard.
"	"	"	485	.....	.....	.....	.....	.....	.....	91.18	45908	Commercial standard.
"	"	"	470	.....	.....	.....	.....	.....	.....	88.36	45909	Low grade.
"	"	"	480	.....	.....	.....	.....	.....	.....	90.24	45910	Commercial standard.

BULLETIN No. 222 —CREAM OF TARTAR —

TABLE

Date of Collection.	Nature of Sample	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF NEW BRUNSWICK								
1910.								
Oct. 12	Cream of Tartar.	45324	Nat. Drug & Chem. Co., Ltd., St. John, N.B.	$\frac{1}{2}$ lb...	13	Vendors.....		
" 15	" ..	45325	The Can. Drug Co., St. John, N.B.	$\frac{1}{2}$ " ..	15	.....	H. W. Cole, Ltd., St. John, N.B.	
" 15	" ..	45326	W. Hawker & Son, St. John, N.B.	$\frac{1}{2}$ " ..	20	.....	Howard & Sons, London, Eng.	
" 16	" ..	45327	E. Clinton Brown, St. John, N.B.	$\frac{1}{2}$ " ..	20	E. W. Gillette Co., Ltd., Toronto.		Gillette's Cream of Tartar.
" 16	" ..	45328	R. H. Robb, St. John, N.B.	$\frac{1}{2}$ " ..	15	.....	Nat. Drug & Chem. Co., Ltd., St. John, N.B.	
" 4	" ..	45329	Alonzo Staple, Frederiction, N.B.	$\frac{1}{2}$ " ..	20	S. H. Ewing & Sons, Montreal.		
" 5	" ..	45330	The Baird Co., Ltd., Woodstock, N.B.	$\frac{1}{2}$ " ..	15	Vendors		
" 8	" ..	45331	H. S. Wade, Grand Falls, N.B.	$\frac{1}{2}$ " ..	20	.....	Nat. Drug & Chem. Co., Ltd., St. John, N.B.	
" 18	" ..	45332	Jones Drug Co., Moncton, N.B.	$\frac{1}{2}$ " ..	15	.....	" ..
" 21	" ..	45333	McCarthy Drug Co., Bathurst.	$\frac{1}{2}$ " ..	20	.....	The Can. Drug Co., Ltd., St. John, N.B.	

DISTRICT OF QUEBEC—

Sept. 12	Cream of Tartar.	36476	Joseph Masson, 308 Rue St. Valier, Quebec.	$\frac{1}{2}$ lb...	20	Unknown		
" 13	" ..	36477	A. Martineau, 734 Rue St. Valier, Quebec.	$\frac{1}{2}$ " ..	20	"	W. Brunet & Cie, Quebec.	
" 14	" ..	36478	W. Brunet & Cie, 139 Rue St. Joseph, Quebec.	$\frac{1}{2}$ " ..	14	"	Unknown.....	
" 15	" ..	36479	Estate Geo. P. Plamondon, 122 Rue St. Joseph, Quebec.	$\frac{1}{2}$ " ..	25	"		
" 15	" ..	36480	Ludger E. Martel, 91 Rue St. Joseph, Quebec.	$\frac{1}{2}$ " ..	15	"	Unknown.....	

SESSIONAL PAPER No. 14
AS PURCHASED IN DRUG SHOPS.

I.

RESULTS OF ANALYSIS.												
Preliminary Examination.				Determinations.								
Starch.	Sulphates.	Phosphates.	Acidity.	Starch.	Kind.	Alumina.	Phosphoric Acid.	Sulphuric Acid.	Calcium Oxide.	Percentage of Purity.	No. of Sample.	Remarks and Opinion of the Chief Analyst.

J.C. FERGUSON, INSPECTOR.

p.c.	p.c.	p.c.	p.c.	p.c.		p.c.	p.c.	p.c.	p.c.	p.c.		
None.	None.	None.	530	.....						99.64	45324	Up to B. P. standard.
"	"	"	475	.....						89.30	45325	Commerical standard.
"	"	"	525	.....						98.70	45326	Up to B. P. standard.
"	"	"	530	.....						99.64	45327	" "
"	"	"	500	.....						94.00	45328	Commerical standard.
"	"	"	475	.....						89.30	45329	" "
"	"	"	470	.....						88.36	45330	Low grade.
"	"	"	490	.....						92.12	45331	Commerical standard.
"	"	"	480	.....						90.24	45332	" "
"	"	"	475	.....						89.30	45333	" "

E. BELAND, INSPECTOR.

Pre-sent.	Pre-sent.	Pre-sent.	470	1.92	Maize	0.21	5.40	5.32	9.90	.....	36476	Adulterated.
"	"	"	435	4.28	"	1.89	0.40	9.44	10.00	.....	36477	"
"	"	"	450	4.22	"	2.02	1.10	10.54	14.00	.....	36478	"
"	"	"	475	2.46	"	0.34	6.50	6.52	10.00	.....	36479	"
None.	None.	None.	470	.....						88.36	36480	Low grade.

BULLETIN No. 222—CREAM OF TARTAR—

TABLE

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF QUEBEC—								
1910.								
Sept. 16	Cream of Tartar.	36481	Charles S. Delisle, 379½ Rue St. Jean, Quebec.	½ lb ..	15	Unknown ..	Unknown.....	
" 16	" ..	36482	Alfred L. Joliceur, 338 Rue St. Jean, Quebec.	½ " ..	25	" ..		
" 16	" ..	36483	F. C. Lacherotiere, 224 Rue St. Jean, Quebec.	½ " ..	25	" ..		
" 16	" ..	36484	J. E. Turcot, 117 Rue St. Jean, Quebec.	½ " ..	35	" ..	Lymans Ltd.,	
" 16	" ..	36485	Jos. E. Dubé, 39 Rue St. Jean, Quebec.	½ " ..	25	" ..	" ..	
DISTRICT OF ST. HYACINTHE—								
Sept. 17	Cream of Tartar.	41008	Dr. Viger, St. Hyacinthe.	½ lb ..	20			
" 17	" ..	41009	J. H. E. Brodeur, St. Hyacinthe.	½ " ..	20			
" 19	" ..	41011	W. H. Griffiths, Sherbrooke, P.Q.	½ " ..	25			
" 19	" ..	41012	J. B. McBain, Sherbrooke, P.Q.	½ " ..	25			
" 19	" ..	41013	F. T. Ansell, Sherbrooke, P.Q.	½ " ..	25			
" 19	" ..	41019	A. E. DuBerger, Sherbrooke, P.Q.	½ " ..	25			
" 20	" ..	41026	F. D. Hewett, Sherbrooke, P.Q.	½ " ..	30			
" 20	" ..	41027	J. C. Sutherland, Richmond, P.Q.	½ " ..	20	Lymans Ltd..		
" 20	" ..	41028	J. C. Bedard, Richmond, P.Q.	½ " ..	18		Lyman Knox Co.	
" 20	" ..	41029	L. S. Browne, Granby, P.Q.	½ " ..	25	Lymans Ltd..		
DISTRICT OF MONTREAL—								
Sept. 12	Cream of Tartar.	40704	Dr. J. Leauc & Cie., St. Catherine E., Montreal.	½ lb ..	25			
" 12	" ..	40705	Jos. Pigeon, 412 Notre Dame W., Montreal.	½ " ..	25			
" 12	" ..	40706	Raoul Raizenne, 701 Notre Dame W., Montreal.	½ " ..	15			

SESSIONAL PAPER No. 14
AS PURCHASED IN DRUG SHOPS.

I.

RESULTS OF ANALYSIS.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Preliminary Examination.				Determinations.								
Starch.	Sulphates.	Phosphates.	Acidity.	Starch.	Kind.	Alumina.	Phosphoric Acid.	Sulphuric Acid.	Calcium Oxide.	Percentage of Purity.		

E. BELAND, INSPECTOR—Continued.

p. c.	p. c.	p. c.	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.		
None.	None.	None.	530							99.64	36481	Up to B. P. standard
Pre- sent.	Pre- sent.	Pre- sent.	475	1.82	Maize	0.29	2.75	7.10	14.90		36482	Adulterated.
"	"	"	450	5.70	"	0.72	7.70	7.38	15.50		36483	"
None.	None.	None.	475							89.30	36484	Commerical standard.
"	"	"	475							89.30	36485	"

J. J. COSTIGAN, ACTING INSPECTOR.

None.	None.	None.	480							90.24	41008	Commercial standard.
"	"	"	480							90.24	41009	"
"	"	"	530							99.64	41011	Up to B.P. standard.
"	"	"	500							94.00	41012	Commercial standard.
"	"	"	495							93.06	41013	"
"	"	"	480							90.24	41019	"
"	"	"	525							98.70	41026	Up to B.P. standard.
"	"	"	485							91.18	41027	Commercial standard.
"	"	"	490							92.12	41028	"
"	"	"	485							91.18	41029	"

J. J. COSTIGAN, INSPECTOR.

None.	None.	None.	480							90.21	40704	Commercial standard.
"	"	"	520							97.76	40705	Up to B.P. standard.
Pre- sent	Pre- sent.	Pre- sent.	515	10.08	Maize	1.47	19.15	8.17	28.00		40706	Adulterated.

BULLETIN No. 222—CREAM OF TARTAR—

TABLE

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF MONTREAL—

1910								
Sept. 12	Cream of Tartar.	40707	J. O. Poitras, 1510 St. James W., Montreal.	$\frac{1}{2}$ lb.	20			
" 13	" ..	40708	J. A. Prevost, 662 St. Denis, Montreal	$\frac{1}{2}$ "	20			
" 13	" ..	40709	E. J. Nadeau, 953 St. Denis, Montreal	$\frac{1}{2}$ "	25			
" 13	" ..	40710	J. L. H. Valois, 470 Rachel St., Montreal.	$\frac{1}{2}$ "	20			
" 13	" ..	40711	L. J. Lafontaine, 471 Mount Royal Ave., Montreal.	$\frac{1}{2}$ "	20	Lymans Ltd.		
" 13	" ..	40712	A. Brillon, 1185 St. Denis St., Montreal.	$\frac{1}{2}$ "	20	Nat Drug & Chem. Co., Ltd.		
" 13	" ..	40713	Dr. R. J. Charette 153 Mount Royal Ave., E. Montreal.	$\frac{1}{2}$ "	20			

DISTRICT OF OTTAWA—

Sept. 7	Cream of Tartar.	43069	Beattie & Argue, Ottawa.	$\frac{1}{2}$ lb.	25	Unknown	Nat. Drug & Chem. Co., Ltd. Ottawa.	
" 8	" ..	43073	F. W. Day, Ottawa	$\frac{1}{2}$ "	25	"	Lymans, Ltd., Montreal.	
" 9	" ..	43076	S. E. Johnston, Arnprior.	$\frac{1}{2}$ "	20	"	Forbes Bros., Montreal.	
" 13	" ..	43077	Dr. McIntosh, Vankleek Hill.	$\frac{1}{2}$ "	20	"	L. Chaput fils & Co., Montreal.	
" 14	" ..	43079	F. A. Girdwood, Perth, Ont.	$\frac{1}{2}$ "	20	E. W. Gillett, Co. Ltd., Toronto.	Manufacturer.	
20	" ..	43084	W. H. Raney, Prescott.	$\frac{1}{2}$ "	20	Unknown	Lyman Knox, Montreal.	
" 27	" ..	43090	W. F. Garland, Ottawa.	$\frac{1}{2}$ "	20	"	Nat. Drug & Chem. Co., Ottawa.	
" 27	" ..	43091	R. M. Arbuthnot, Ottawa.	$\frac{1}{2}$ "	20	"	Nat. Drug & Chem. Co., Ottawa.	
" 28	" ..	43092	D. Belanger, Hull P.Q.	$\frac{1}{2}$ "	20	"	Nat. Drug & Chem. Co., Ottawa.	
28	" ..	43093	The Ottawa Nat. Pharmacy, Ltd., Ottawa.	$\frac{1}{2}$ "	15	"	Lymans, Ltd., Montreal.	

SESSIONAL PAPER No. 14
AS PURCHASED IN DRUG SHOPS.

I.

RESULTS OF ANALYSIS.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Preliminary Examination.				Determinations.								
Starch.	Sulphates.	Phosphates.	Acidity.	Starch.	Kind.	Alumina.	Phosphoric Acid.	Sulphuric Acid.	Calcium Oxide.	Percentage of Purity.		

J. J. COSTIGAN, INSPECTOR—Continued.

p. c.	p. c.	p. c.	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.		
None.	None.	None.	505	...	...	...	...	...	...	94.94	40707	Commercial standard.
"	"	"	480	.....	.....	.....	.....	.....	.....	90.24	40708	"
"	"	"	475	.....	.....	.....	.....	.....	.....	89.30	40709	"
"	"	"	480	.....	.....	.....	.....	.....	.....	90.24	40710	"
"	"	"	480	.....	.....	.....	.....	.....	.....	90.24	40711	"
"	"	"	485	.....	.....	.....	.....	.....	.....	91.18	40712	"
"	"	"	480	.....	.....	.....	.....	.....	.....	90.24	40713	"

J. A. RICKEY, INSPECTOR.

None.	None.	None.	525	.....	.....	.....	.....	.....	.....	98.70	43069	Up to B. P. Standard.
"	"	"	530	.....	.....	.....	.....	.....	.....	99.64	43073	" "
"	"	"	490	.....	.....	.....	.....	.....	.....	92.12	43076	Commercial standard.
"	"	"	480	.....	.....	.....	.....	.....	.....	90.24	43077	" "
"	"	"	490	.....	.....	.....	.....	.....	.....	92.12	43079	" "
"	"	"	505	.....	.....	.....	.....	.....	.....	94.94	43084	" "
"	"	"	520	.....	.....	.....	.....	.....	.....	97.76	43090	Up to B. P. standard.
"	"	"	490	.....	.....	.....	.....	.....	.....	92.12	43091	Commercial standard.
"	"	"	530	.....	.....	.....	.....	.....	.....	99.64	43092	Up to B. P. standard
"	"	"	532	.....	.....	.....	.....	.....	.....	100.00	43093	" "

BULLETIN No. 222—CREAM OF TARTAR—

TABLE

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF KINGSTON—								
1910.								
Oct.	4	Cream of Tartar.	46519	F. Hoag, Kingston	1 lb.	20	.....	N. C. Polson, Kingston.
"	4	" ..	46520	C. S. Prouse, Kingston.	$\frac{1}{2}$ "	20	Unknown ..	.....
"	4	" ..	46521	A. P. Chown, Kingston.	$\frac{1}{2}$ "	20	.....	Lyman & Son, Montreal.
"	4	" ..	46522	W. W. Gibson, Kingston.	$\frac{1}{2}$ "	20	.....	Drug Trading Co., Toronto
"	4	" ..	46523	G. W. Mahood, Kingston.	$\frac{1}{2}$ "	20	.....	Lyman & Son, Montreal.
"	4	" ..	46524	L. T. Best, Kingston.	$\frac{1}{2}$ "	20	.....	Lyman & Son, Montreal.
"	10	" ..	46525	A. L. Geens, Belleville.	$\frac{1}{2}$ "	20	.....	Lyman & Son, Montreal
"	10	" ..	46526	J. S. McKeowns, Belleville.	$\frac{1}{2}$ "	20	.....	McLarens, Hamilton.
"	11	" ..	46527	McDermid & Jury, Peterboro.	$\frac{1}{2}$ "	20	.....	J. A. Maclean, Toronto.
"	11	" ..	46528	Warne Drug Co., Peterboro.	$\frac{1}{2}$ "	20	.....	Nat. Drug Co., Toronto.
DISTRICT OF TORONTO—								
Sept.	14	Cream of Tartar.	45139	J.R.Lee, 256 Queen St. E., Toronto.	$\frac{1}{2}$ lb.	20	.....	The Drug Trading Co., Ltd., Toronto
"	14	" ..	45140	F. W. Sievright, Wilton St., Toronto.	$\frac{1}{2}$ "	20	.....	" ..
"	16	" ..	45141	J. A. Johnston, 171 King St., E., Toronto.	$\frac{1}{2}$ "	18	.....	Lyman Bros. & Co., Ltd., Toronto.
"	16	" ..	45142	W. Hart, 1230 College St., Toronto.	$\frac{1}{2}$ "	20	.....	" ..
"	20	" ..	45143	Jas. Harrison, Jas. St., Hamilton.	$\frac{1}{2}$ "	20	.....	The Drug Trading Co. Ltd., Hamilton.
"	22	" ..	45144	T.J.Brown, Orangeville.	$\frac{1}{2}$ "	25	.....	Unknown. ..
"	22	" ..	45145	J. R. Gillespie, Orangeville.	$\frac{1}{2}$ "	20	.....	" ..
"	23	" ..	45146	Campbell & Murphy, Orangeville.	$\frac{1}{2}$ "	20	.....	Nat. Drug and Chem. Co., Ltd., Toronto
"	3	" ..	45147	A. W. Manley, Owen Sound.	$\frac{1}{2}$ "	20	.....	The Nat. Drug & Chem. Co., Ltd., Hamilton.
"	23	" ..	45148	W.H.Taylor, Owen Sound.	$\frac{1}{2}$ "	20	J. M. Lowes Co., Toronto.	.....

SESSIONAL PAPER No. 14
AS PURCHASED IN DRUG SHOPS.

I.

RESULTS OF ANALYSIS.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Preliminary Examination.				Determinations.								
Starch.	Sulphates.	Phosphates.	Acidity.	Starch.	Kind.	Alumina.	Phosphoric Acid.	Sulphuric Acid.	Calcium Oxide.	Percentage of Purity.		

JAS. HOGAN, INSPECTOR.

p. c.	p. c.	p. c.	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.		
None.	None.	None.	485	.....	.....	.....	.....	.....	.....	91.18	46519	Commercial standard.
"	"	"	470	.....	.....	.....	.....	.....	.....	88.36	46520	Low grade.
"	"	"	520	.....	.....	.....	.....	.....	.....	97.76	46521	Up to B. P. standard.
"	"	"	520	.....	.....	.....	.....	.....	.....	97.76	46522	" "
"	"	"	532	.....	.....	.....	.....	.....	.....	100.00	46523	" "
"	"	"	530	.....	.....	.....	.....	.....	.....	99.64	46524	" "
"	"	"	490	.....	.....	.....	.....	.....	.....	92.12	46525	Commercial standard.
"	"	"	490	.....	.....	.....	.....	.....	.....	92.12	46526	" "
"	"	"	485	.....	.....	.....	.....	.....	.....	91.18	46527	" "
"	"	"	480	.....	.....	.....	.....	.....	.....	90.24	46528	" "

H. J. DAGER, INSPECTOR.

None.	None.	None.	530	.....	.....	.....	.....	.....	.....	99.64	45139	Up to B. P. standard.
"	"	"	532	.....	.....	.....	.....	.....	.....	100.00	45140	" "
"	"	"	500	.....	.....	.....	.....	.....	.....	94.00	45141	Commercial standard.
"	"	"	490	.....	.....	.....	.....	.....	.....	92.12	45142	" "
"	"	"	510	.....	.....	.....	.....	.....	.....	95.88	45143	" "
"	"	"	490	.....	.....	.....	.....	.....	.....	92.12	45144	" "
"	"	"	480	.....	.....	.....	.....	.....	.....	90.24	45145	" "
"	"	"	475	.....	.....	.....	.....	.....	.....	89.30	45146	" "
"	"	"	530	.....	.....	.....	.....	.....	.....	99.64	45147	Up to B. P. standard.
"	"	"	490	.....	.....	.....	.....	.....	.....	92.12	45148	Commercial standard.

2 GEORGE V., A. 1912

BULLETIN No. 222—CREAM OF TARTAR—

TABLE

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (In not as expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF LONDON—								
1919								
Sept. 26	Cream of Tartar.	44627	Ed. Robertson, Stratford.	$\frac{1}{2}$ lb.	20	.....	Stratford Wholesale Grocery, Stratford.	.....
DISTRICT OF WINDSOR—								
Oct. 3	Cream of Tartar.	42442	F. Lemon & Co., St. Thomas.	$\frac{1}{2}$ lb.	25	.....	Drug Trading Co., Toronto	.....
" 3	"	42448	W. W. Taylor, St. Thomas.	$\frac{1}{2}$ "	30	.....	Nat. Drug Co., Toronto.	.....
" 3	"	42455	Fred. W. Judd, St. Thomas.	$\frac{1}{2}$ "	25	.....	Nat. Drug Co., London.	.....
" 3	"	42460	J. E. Richards & Co., Aylmer, Ont.	$\frac{1}{2}$ "	25	E. W. Gillette Co., Ltd., Toronto.	.....	.....
" 4	"	42468	Ern A. Campbell, Aylmer, Ont.			.....	Drug Trading Co., Toronto	.....
" 4	"	42471	W. A. McCollum, Tillsonburg.	$\frac{1}{2}$ "	20	Unknown.	.....	.....
" 5	"	42476	W. S. McDonald, Tillsonburg.	$\frac{1}{2}$ "	30	.....	Drug Trading Co., Toronto	.....
" 5	"	42483	Frank Hyde, Woodstock.	$\frac{1}{2}$ "	20	Nat. Drug Co.	.....	.....
DISTRICT OF CALGARY—								
Sept. 22	Cream of Tartar.	43919	Nat. Drug & Chem. Co., Calgary.	$\frac{1}{2}$ lb.	15	.....	Nat. Drug & Chem. Co., Ltd., Montreal.	.....
" 23	"	43920	R. Harvey, Calgary	$\frac{1}{2}$ "	20	.....	Nat. Drug & Chem. Co., Ltd., Calgary	.....
" 23	"	43921	The Bruce Drug Store, Calgary.	$\frac{1}{2}$ "	20	.....	"	.....
" 24	"	43922	Oliver Bros., Calgary.	$\frac{1}{2}$ "	20	.....	"	.....
" 24	"	43923	The McDermid Drug Co., Ltd., Calgary,	$\frac{1}{2}$ "	20	.....	"	.....
" 29	"	43924	H. L. Higgs, Wetaskiwin.	$\frac{1}{2}$ "	20	.....	"	.....
" 29	"	43925	J. H. Walker, Wetaskiwin.	$\frac{1}{2}$ "	30	.....	"	.....
" 30	"	43926	E. M. Carpenter, Edmonton.	3 pkgs	45	.....	Lymans Ltd., Montreal.	.....
" 30	"	43927	Laval Pharmacy, Edmonton.	$\frac{1}{2}$ lb.	20	.....	"	.....
" 30	"	43928	J. H. Lives, Edmonton.	$\frac{1}{2}$ "	30	Blue Ribbon Mfg. Co., Winnipeg.	.....	.....

SESSIONAL PAPER No. 14
AS PURCHASED IN DRUG SHOPS.

I.

RESULTS OF ANALYSIS.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Preliminary Examination.				Determinations.								
Starch.	Sulphates.	Phosphates.	Acidity.	Starch.	Kind.	Alumina.	Phosphoric Acid.	Sulphuric Acid.	Calcium Oxide.	Percentage of Purity.		

T. KIDD, INSPECTOR.

p. c.	p. c.	p. c.	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.		
None.	None.	None.	475	.....	.....	.....	.....	.....	.....	89.30	44627	Commercial standard.

JNO. TALBOT, INSPECTOR.

None.	None.	None.	530	.....	.....	.....	.....	.....	.....	99.64	42442	Up to B. P. standard.
"	"	"	485	.....	.....	.....	.....	.....	.....	91.18	42448	Commercial standard.
"	"	"	470	.....	.....	.....	.....	.....	.....	88.36	42455	Low grade.
"	"	"	530	.....	.....	.....	.....	.....	.....	99.64	42460	Up to B. P. standard.
"	"	"	515	.....	.....	.....	.....	.....	.....	96.82	42468	Nearly up to B. P standard.
"	"	"	490	.....	.....	.....	.....	.....	.....	92.12	42471	Commercial standard.
"	"	"	510	.....	.....	.....	.....	.....	.....	95.88	42476	"
"	"	"	495	.....	.....	.....	.....	.....	.....	93.06	42483	"

R. W. FLETCHER, INSPECTOR.

None.	None.	None.	480	.....	.....	.....	.....	.....	.....	90.24	43919	Commercial standard.
"	"	"	510	.....	.....	.....	.....	.....	.....	95.88	43920	"
"	"	"	510	.....	.....	.....	.....	.....	.....	95.88	43921	"
"	"	"	470	.....	.....	.....	.....	.....	.....	88.36	43922	Low grade.
"	"	"	480	.....	.....	.....	.....	.....	.....	90.24	43923	Commercial standard.
"	"	"	505	.....	.....	.....	.....	.....	.....	94.94	43924	"
"	"	"	510	.....	.....	.....	.....	.....	.....	95.88	43925	"
"	"	"	475	.....	.....	.....	.....	.....	.....	89.30	43926	"
"	Pres-ent.	"	500	None.	None.	None.	None.	0.93	1.40	94.00	43927	"
"	None.	"	470	.....	.....	.....	.....	.....	.....	88.36	43928	Low grade.

2 GEORGE V., A. 1912
BULLETIN No. 222—CREAM OF TARTAR—
TABLE

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF VANCOUVER—								
1910.								
Oct.	5 Cream of Tartar.	38009	Brown & Beaton, Vancouver.	$\frac{1}{2}$ lb...	25		Henderson Bros., Vancouver.	
"	5 " "	38010	W. E. Law, Vancouver.	$\frac{1}{2}$ " "	25		Unknown	
"	5 " "	38011	E. Shoff, Vancouver.	$\frac{1}{2}$ " "	25		Henderson Bros.	
"	5 " "	38012	McDowell Atkins Watson Co., Vancouver.	$\frac{1}{2}$ " "	25		"	
"	5 " "	38013	E. S. Knowlton, Vancouver.	$\frac{1}{2}$ " "	25		"	
"	5 " "	38014	Central Drug Store, Vancouver	$\frac{1}{2}$ " "	25		"	
"	5 " "	38015	Owl Drug Store, Vancouver.	$\frac{1}{2}$ " "	30		"	
"	5 " "	38016	McDuffee Bros., Vancouver.	$\frac{1}{2}$ " "	25		"	
"	5 " "	38017	Woodward Dept., Stores, Vancouver.	$\frac{1}{2}$ " "	25		Unknown	
"	5 " "	38018	Vancouver Drug Co., Vancouver.	$\frac{1}{2}$ " "	25		W. Braid & Co., Vancouver.	
DISTRICT OF VICTORIA								
Oct.	20 Cream of Tartar.	44985	D. E. Campbell, Victoria, B.C.	$\frac{1}{2}$ lb	40	Lyman's Sons, Ltd., Montreal.		
"	20 " "	44986	J no. Cochrane, Victoria, B.C.	$\frac{1}{2}$ " "	25	"		
"	20 " "	44987	W. S. Terry, Victoria, B.C.	$\frac{1}{2}$ " "	30	Nat. Drug & Chem. Co., Ltd., Victoria.		
"	20 " "	44988	Hall & Co., Victoria, B.C.	$\frac{1}{2}$ " "	25	Lyman Bros. & Co., Toronto		
"	20 " "	44989	Wm. Jackson & Co., Victoria, B.C.	$\frac{1}{2}$ " "	30	Lyman Ltd., Montreal.		
"	20 " "	44990	F. J. Williams, Victoria, B.C.	$\frac{1}{2}$ " "	25	Nat. Drug & Chem. Co., Victoria.		
"	20 " "	44991	Geo. A. Fraser, Victoria, B.C.	$\frac{1}{2}$ " "	30	"		
"	24 " "	44992	Nat. Drug & Chem. Co., Ltd., Victoria, B.C.	$\frac{1}{2}$ " "	25	Nat. Drug & Chem. Co., Montreal.		
"	24 " "	44993	Dean & Hiscocks, Victoria, B.C.	$\frac{1}{2}$ " "	25	J. A. Teaporten, Vancouver.		
"	24 " "	44994	B.C. Drug Co., Ltd., Victoria, B.C.	$\frac{1}{2}$ " "	25	Nat. Drug & Chem. Co., Ltd., Victoria.		

SESSIONAL PAPER No. 14
AS PURCHASED IN DRUG SHOPS.

I.

RESULTS OF ANALYSIS.												
Preliminary Examination.				Determinations.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
Starch.	Sulphates.	Phosphates.	Acidity.	Starch.	Kind.	Alumina.	Phosphoric Acid.	Sulphuric Acid.	Calcium Oxide.	Percentage of Purity.		

J. F. POWER, INSPECTOR.

p. c.	p. c.	p. c.	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.		
None.	None.	None.	485	.....	.....	.....	.....	.....	.....	91.18	38009	Commercial standard.
"	"	"	480	.....	.....	.....	.....	.....	.....	90.24	38010	"
"	"	"	475	.....	.....	.....	.....	.....	.....	89.30	38011	"
"	"	"	510	.....	.....	.....	.....	.....	.....	95.88	38012	"
"	"	"	485	.....	.....	.....	.....	.....	.....	91.18	38013	"
"	"	"	475	.....	.....	.....	.....	.....	.....	89.30	38014	"
"	"	"	485	.....	.....	.....	.....	.....	.....	91.18	38015	"
"	"	"	520	.....	.....	.....	.....	.....	.....	97.76	38016	Up to B. P. standard.
"	"	"	485	.....	.....	.....	.....	.....	.....	91.18	38017	Commercial standard.
"	"	"	485	.....	.....	.....	.....	.....	.....	91.18	38018	"

D. O'SULLIVAN, INSPECTOR.

None.	None	None.	532	.....	.....	.....	.....	.....	.....	100.00	44985	Up to B. P. standard.
"	"	"	480	.....	.....	.....	.....	.....	.....	90.24	44986	Commercial standard.
"	"	"	475	.....	.....	.....	.....	.....	.....	89.30	44987	"
"	"	"	525	.....	.....	.....	.....	.....	.....	98.70	44988	Up to B. P. standard.
"	"	"	525	.....	.....	.....	.....	.....	.....	98.70	44989	"
"	"	"	505	.....	.....	.....	.....	.....	.....	94.94	44990	Commercial standard.
"	"	"	465	.....	.....	.....	.....	.....	.....	87.40	44991	Low grade.
"	"	"	485	.....	.....	.....	.....	.....	.....	91.18	44992	Commercial standard.
"	"	"	495	.....	.....	.....	.....	.....	.....	93.06	44993	"
"	"	"	475	.....	.....	.....	.....	.....	.....	89.30	44994	"

BULLETIN No. 222—CREAM OF TARTAR—

TABLE

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NOVA SCOTIA—

1910.								
Oct. 17	Cream of Tartar.	42117	J. F. Crowe & Co., Ltd., Halifax, N.S.	3 pkgs	18	W. H. Schwartz & Sons Halifax	Manufacturer.	Peerless Brand..
" 17	"	42119	A. L. Doyle & Co., Halifax, N.S.	3 " ..	21	" ..	" ..	" ..
" 17	"	42120	T. J. Brown, Halifax, N.S.	3 " ..	20	Unknown ...	J. F. Crowe & Co., Halifax	.....
" 17	"	42121	W. J. Hopgood & Son, Halifax, N.S.	3 " ..	30	W. H. Schwartz & Sons Halifax.	Manufacturer.	Peerless Brand..
" 17	"	42122	City Provision Store, Halifax, N.S.	3 " ..	30	J. P. Mott & Co., Halifax	Jno Tobin & Co., Halifax	.....
" 17	"	42123	J. L. Archibald & Son, Halifax, N.S.	3 " ..	30	Forsyth Sutcliffe & Co., Halifax	Manufacturer.	.....
" 17	"	42125	W. J. Forristall, Halifax, N.S.	3 " ..	30	Nat. Drug & Chem. Co., Halifax.	" ..	.....
" 17	"	42128	F. W. Hodgson, Halifax, N.S.	8 oz.	18	Forsyth Sutcliffe & Co., Halifax.	" ..	.....
" 18	"	42129	W. H. Schwartz & Sons, Halifax, N.S.	3 pkgs	20	Vendors.....	.....	Peerless Brand..
" 18	"	42130	T. F. Courtney & Co., Halifax, N.S.	8 oz.	20	J. P. Mott & Co., Halifax	Manufacturer.	.....
" 18	"	42132	E. B. Tracy, Halifax, N.S.	3 pkgs	24	W. H. Schwartz & Sons Halifax.	" ..	.....
" 18	"	42133	E. Donahoe & Son, Halifax, N.S.	3 " ..	30	" ..	" ..	.....
" 19	"	42137	Wentzells, Ltd., Halifax, N.S.	3 " ..	21	Jno. P. Mott & Co., Halifax	" ..	.....
" 19	"	42138	Jno. P. Mott & Co., Halifax, N.S.	3 " ..	21	Vendors ....	.....	.....

DISTRICT OF PRINCE EDWARD ISLAND—

Sept. 12	Cream of Tartar.	38785	P. A. Smith, Charlottetown.	$\frac{1}{2}$ lb. ...	18	.....	Rattenburg, Ltd., Charlottetown.	.....
" 13	"	38786	M. & A. McLeod. Charlottetown.	$\frac{1}{2}$ " ..	18	Robt. Greig & Co., Toronto	.....	.....
" 13	"	38787	J. A. Farquharson, Charlottetown.	$\frac{1}{2}$ " ..	20	Lister Purefood Co., Toronto.	.....	Pure French Cream of Tartar, guaranteed
" 13	"	38788	W. W. Walker, Charlottetown.	$\frac{1}{2}$ " ..	18	W. H. Schwartz, Halifax.	.....	.....

SESSIONAL PAPER No. 14
AS PURCHASED IN GROCERY SHOPS.

II.

RESULTS OF ANALYSIS.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Preliminary Examination.				Determinations.								
Starch.	Sulphates.	Phosphates.	Acidity.	Starch.	Kind.	Alumina.	Phosphoric Acid.	Sulphuric Acid.	Calcium Oxide.	Percentage of Purity.		

R. J. WAUGH, INSPECTOR.

p. c.	p. c.	p. c.	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.		
None.	None.	None.	485	.....	.....	.....	.....	.....	.....	91·18	42117	Commercial.
"	"	"	485	.....	.....	.....	.....	.....	.....	91·18	42119	"
"	"	"	480	.....	.....	.....	.....	.....	.....	90·24	42120	"
"	"	"	485	.....	.....	.....	.....	.....	.....	91·18	42121	"
"	"	"	480	.....	.....	.....	.....	.....	.....	90·24	42122	"
"	"	"	475	.....	.....	.....	.....	.....	.....	89·30	42123	"
"	"	"	475	.....	.....	.....	.....	.....	.....	89·30	42125	"
"	"	"	485	.....	.....	.....	.....	.....	.....	91·18	42128	"
"	"	"	475	.....	.....	.....	.....	.....	.....	89·30	42129	"
"	"	"	485	.....	.....	.....	.....	.....	.....	91·18	42130	"
"	"	"	480	.....	.....	.....	.....	.....	.....	90·24	42132	"
"	"	"	495	.....	.....	.....	.....	.....	.....	93·06	42133	"
"	"	"	495	.....	.....	.....	.....	.....	.....	93·06	42137	"
"	"	"	480	.....	.....	.....	.....	.....	.....	90·24	42138	"

THEO. MOORE, INSPECTOR.

None.	None.	None.	520	.....	.....	.....	.....	.....	.....	97·76	38785	Up to B. P. standard.
"	"	"	470	.....	.....	.....	.....	.....	.....	88·36	38786	Low grade.
"	"	"	485	.....	.....	.....	.....	.....	.....	91·18	38787	Commercial.
"	"	"	475	.....	.....	.....	.....	.....	.....	89·30	38788	"

2 GEORGE V., A. 1912

BULLETIN No. 222—CREAM OF TARTAR—

TABLE

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF PRINCE EDWARD ISLAND—

1910.								
Sept. 13	Cream of Tartar.	38789	J. T. Martin, Charlottetown.	$\frac{1}{2}$ lb...	20	Carvell Bros., Charlottetown.		
14		38790	J. C. Crable, Charlottetown.	$\frac{1}{2}$ "	20	Crown Spice Co., Halifax		
14		38791	Carvell Bros., Charlottetown.	$\frac{1}{4}$ " ..	18	"		Guaranteed strictly pure.
14		38792	George Carver, Pownal.	$\frac{1}{2}$ " ..	20		Beer & Goff, Charlottetown.	
16		38793	F. W. McEachern, Cherry Valley.	$\frac{3}{4}$ lb...	30	E. W. Gillet Co., Ltd., Toronto.		
16		38794	Geo. Forbes, Vernon River Bridge.	$\frac{1}{2}$ "	18	Chaput, fils & Co., Montreal.		
16		38795	A. N. Jenkins, Oruell.	$\frac{1}{2}$ " ..	18	Dearborn & St. John, N.B.		
17		38796	A. D. Ross, Eldon.	$\frac{1}{2}$ "	16	Pure Gold Co., Toronto.		
17		38797	R. K. McKenzie, Flat River.	$\frac{1}{4}$ " ..	24	J. P. Mott, Halifax.		Guaranteed strictly pure.
17		38798	D. McLennan, Bell River.	$\frac{1}{2}$ " ..	20	E. W. Gillet Co., Ltd., Toronto.		Guaranteed to be absolutely pure
17		38799	Joseph McCall, Iona.	$\frac{1}{2}$ "	16		J. A. Farquharson, Charlottetown.	

DISTRICT OF NEW BRUNSWICK—

Sept. 8	Cream of Tartar.	45309	Dearborn & Co., Ltd., St. John, N.S.	$\frac{1}{2}$ lb...	20	Vendors		
"		45310	Baird & Peters, St. John, N.B.	$\frac{1}{2}$ " ..	20			
"		45311	Northrup & Co., South Wharf, St. John, N.B.	$\frac{1}{2}$ " ..	15			
"		45312	G. S. Barbour & Co., Ltd., North Wharf, St. John, N.B.	$\frac{1}{2}$ "	15			
12		45313	Puddington, Wetmore & Morrison, Ltd., St. John, N.B.	3pkgs.	18	"		Signet Brand...
16		45314	T. Collins & Co., St. John, N.B.	$\frac{1}{2}$ lb...	15	"		
19		45315	Gilbert Bent & Son, South Wharf, St. John, N.B.	$\frac{1}{2}$ " ..	15	"		

SESSIONAL PAPER No. 14
AS PURCHASED IN GROCERY SHOPS.

II.

RESULTS OF ANALYSIS.

Preliminary Examination.					Determinations.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
Starch.	Sulphates.	Phosphates.	Acidity.	Starch.	Kind.	Alumina.	Phosphoric Acid.	Sulphuric Acid.	Calcium Oxide.		

THEO. MOORE, INSPECTOR—Continued.

p. c.	p. c.	p. c.	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.	
None.	None.	None.	475							89.30	38789 Commercial.
			470							88.36	38790 Low grade.
			490							92.12	38791 Commercial standard.
	Pre- sent.		450					5.97	5.30	84.60	38792 Low Grade.
			530							99.64	38793 Up to B. P. standard.
			475							89.30	38794 Commercial.
			465							87.42	38795 Low grade.
			500							94.00	38796 Commercial.
			480							90.24	38797
			530							99.64	38798 Up to B. P. standard.
			500							94.00	38799 Commercial.

J. C. FERGUSON, INSPECTOR.

None.	None.	None.	532							100.00	45309 Up to B. P. standard.
			485							91.18	45310 Commercial.
			485							91.18	45311
			532							100.00	45312 Up to B. P. standard.
			485							91.18	45313 Commercial.
			470							88.36	45314 Low grade.
			475							89.30	45315 Commercial.

BULLETIN No. 222—CREAM OF TARTAR—

TABLE

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion)
				Quantity.	Cents.	Manufacturer.	Furnishers.	
DISTRICT OF NEW BRUNSWICK—								
1910								
Oct.	4 Cream of Tartar.	45316	G. T. Whelpley Estate, Fredericton, N.B.	3pkgs.	30	Pure Gold Mfg. Co., Toronto.		Whelpley's pure Cream of Tartar.
"	5 " "	45317	B. H. Smith & Sons, Woodstock, N.B.	$\frac{1}{2}$ lb	15			
"	6 " "	45318	Benjamin Beveridge, Andover, N.B.	3pkgs.	30	G. S. Dunn & Co., Hamilton.		
"	7 " "	45319	C. W. Lewis, Perth, N.B.	3 " "	30	Thos. McCready & Sons, Ltd., St. John, N.B.		Diamond Brand.
"	8 " "	45320	Peter Lagacy, Grand Falls, N.B.	3 " "	30	J. P. Mott & Co., Halifax.		
"	18 " "	45321	Geo. O. Stratton, Moncton, N.B.	$\frac{1}{2}$ lb..	15	Todhunter, Mitchell & Co., Toronto		
"	19 " "	45322	S. A. Russell, Newcastle, N.B.	$\frac{1}{2}$ " "	15			
"	21 " "	45323	Nepisiguit Lumber Co., Ltd., Bathurst, N.B.	3pkgs.	30	White Swan Spices and Cereals Ltd., Toronto.		White Swan Brand.

DISTRICT OF QUEBEC—

Sépt. 18	Cream of Tartar.	36301	Hamel & Bedard, 728 Rue St. Valier, Quebec.	$\frac{1}{2}$ lb.	20	Unknown.	Turcot Frère & Cie., Quebec	
" 18	"	36302	Arthur Drolet, 714 Rue St. Valier, Quebec.	$\frac{1}{2}$ "	20	"	Nat Drug Co., Montreal.	
" 20	"	36303	A. Rinfret, 114 Rue St. Joseph, Quebec.	$\frac{1}{2}$ "	20	"	J. B. Bedard, Quebec.	
" 21	"	36304	Cantin Frère, 271 Rue St. Joseph, Quebec.	$\frac{1}{2}$ "	20	E. W. Gillett Co., Ltd., Toronto.	Manufacturers	
" 22	"	36305	O. Lacroix, 19 Rue St. Joseph, Quebec.	$\frac{1}{2}$ "	20	E. W. Gillett Co., Ltd., Toronto.	J. B. Reneaud & Cie, Quebec.	
" 23	"	36306	A. Lyonnais, 108 Rue D'Orchester, Quebec.	$\frac{1}{2}$ "	20	Unknown.	Herron & Leblanc, Montreal.	
" 23	"	36307	Dell G. A. Ernet, 120 Rue D'Orchester, Quebec.	$\frac{1}{2}$ "	20	"	Alphonse Laroché, Quebec.	
" 26	"	36308	Theophilie Julien, 124 Rue D'Orchester, Quebec.	$\frac{1}{2}$ "	20	"	Unknown	

SESSIONAL PAPER No. 14

AS PURCHASED IN GROCERY SHOPS.

II.

RESULTS OF ANALYSIS.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Preliminary Examination.				Determinations.								
Starch.	Sulphates.	Phosphates.	Acidity.	Starch.	Kind.	Alumina.	Phosphoric Acid.	Sulphuric Acid.	Calcium Oxide.	Percentage of Purity.		

J. C. FERGUSON, INSPECTOR—*Continued.*

p.c.	p.c.	p.c.	p.c.	p.c.		p.c.	p.c.	p.c.	p.c.	p.c.		
None.	None.	None.	475	.....						89.30	45316	Commercial.
"	"	"	480	...						90.24	45317	"
pre-sent.	pre-sent.	pre-sent.	495	0.34	maize	0.67	2.60	2.40	6.90	.....	45318	Adulterated.
none.	none.	none.	485	.....						91.18	45319	Commercial.
"	"	"	475	.....						89.30	45320	"
"	"	"	485	.....						91.18	45321	"
"	"	"	480	.....						90.24	45322	"
"	"	"	525	.....						98.70	45323	Up to B. P. standard.

E. BELAND, INSPECTOR.

None.	None.	None.	495	.....						93.06	36301	Commercial
"	"	"	480	.....						90.24	36302	"
Pre-sent.	Pre-sent.	Pre-sent.	510	0.24	Maize	0.44	8.00	6.10	12.00	.....	36303	Adulterated
None.	None.	None.	525	.....						98.70	36304	Up to B. P. standard
"	"	"	525	.....						98.70	36305	"
Pre-sent.	Pre-sent.	Pre-sent.	475	2.22	Maize	0.97	3.98	3.70	8.40	.....	36306	Adulterated
None.	Pre-sent.	Pre-sent.	475	None.	None.	1.22	7.44	5.70	13.80	.....	36307	"
"	None.	None.	480	..	.....					90.24	36308	Commerical

BULLETIN No. 222—CREAM OF TARTAR—

TABLE

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cost.	Manufacturer.	Furnisher.	

DISTRICT OF QUEBEC—

1910.								
Sept. 20	Cream of Tartar.	36309	Jcs. D. Marrier, 136 Rue D'Orchester, Quebec.	1 lb.	20	Unknown	Turcot & Frère, Quebec.	
" 27	"	36310	Elzéar Gagnon, 138 Rue D'Orchester, Quebec.		20			
" 27	"	36311	Philippe Clewet, 156 Rue D'Orchester, Quebec.		20			
" 28	"	36312	Elzéar P. Couture, 3 pkts 124 Rue Caron, Quebec.	30		E. W. Gillett Co., Ltd., Toronto.	N. Rioux & Cie, Quebec.	
" 28	"	36313	Jas. A. Talbot, 410 3 Rue de la Reine, Quebec.	30		E. W. Gillett Co., Ltd., Toronto.	N. Turcot & Cie, Quebec.	
" 29	"	36114	Jos. E. Morand, 406 Rue St Valier, Quebec.	1 lb.	20	Unknown	Dronin & Frère, Quebec.	
" 29	"	36315	Jos. Boutin, 40 Rue de La Eglise, Quebec.		20		Bedard & Frère, Quebec.	

DISTRICT OF ST. HYACINTHE—

Sept. 17	Cream of Tartar.	41010	R. O. Brodeur, St. Hyacinthe.	1 lb.	20	Lister Co., Toronto.		
" 19	"	41014	May & Houlihan, 3 pkts. Sherbrooke.	30				
" 19	"	41015	Alfred Lanctot, 1 lb. Sherbrooke.	20			L. Chaput, fils & Co.	
" 19	"	41016	Bernard & Co., 3 pkts. Sherbrooke.	30		F. F. Dalley Co.		
" 19	"	41017	Theriault & Leclerc, 1 lb. Sherbrooke.	20				
" 19	"	41018	N. Lacroix, Sherbrooke.	1 lb.	20			
" 20	"	41020	Biron & Blouin, 1 lb. Sherbrooke.	20			C. O. Genest, Sherbrooke.	
" 20	"	41021	W. B. Murray, Sherbrooke.	1 lb.	20	Todhunter-Mitchell Co.		
" 20	"	41022	V. Archambault, 1 lb. Sherbrooke.	20		Pure Gold Co.		
" 20	"	41023	Hebert & Fortier, 1 lb. Sherbrooke.	15			Hudon, Hebert & Co., Ltd.	
" 20	"	41024	Couture & Moore, 1 lb. Sherbrooke.	20		F. F. Dalley Co.		
" 20	"	41025	Royer & Fissette, 1 tin. Sherbrooke.	20				Labelled Pure French Cream of Tartar.
Oct. 4	"	41030	Chas. Vincent, 3 tins Granby, P.Q.	30				Otter brand.
" 4	"	41031	" " 1 tin.	20		E. W. Gillett Co., Ltd.		
" 5	"	41032	F. W. Jones, Waterloo, P.Q.	1 lb.	20			

SESSIONAL PAPER No. 14
AS PURCHASED IN GROCERY SHOPS.

II.

RESULTS OF ANALYSIS.

Preliminary Examination.					Determinations.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
Starch.	Sulphates.	Phosphates.	Acidity.	Starch.	Kind.	Alumina.	Phosphoric Acid.	Sulphuric Acid.	Calcium Oxide.	Percentage of Purity.		
p. c.	p. c.	p. c.	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.		
Pre- sent.	Pre- sent.	Pre- sent.	310	35.82	Maize	1.80	13.18	6.10	18.60		36309	Adulterated
None	Pre- sent.	Pre- sent.	475	6.36		0.76	9.00	4.99	8.80		36310	
Pre- sent.	Pre- sent.	Trace.	470	9.06		5.89	0.68	17.20	9.80		36311	
None.	None.	None.	530							99.64	36312	Up to B. P. standard
		"	520							97.76	36313	
"	"	"	470							88.56	36314	Low grade
"	"	"	465							87.40	36315	"
J. J. COSTIGAN, ACTING INSPECTOR.												
None.	None.	None.	480							90.24	41010	Commercial.
"	"	"	480							90.24	41014	"
"	"	"	475							89.30	41015	"
"	"	"	480							90.24	41016	"
Pre- sent.	Pre- sent.	Pre- sent.	440	7.86	Maize	0.37	1.45	0.61	4.80		41017	Adulterated.
None.	None.	None.	485							91.18	41018	Commercial.
Pre- sent.	Pre- sent.	Pre- sent.	480	2.24	Maize	0.37	2.55	1.99	4.90		41020	Adulterated.
None.	None.	None.	500							94.00	41021	Commercial.
"	"	"	505							94.94	41022	"
"	"	"	475							89.30	41023	"
"	"	"	485							91.18	41024	"
"	"	"	475							89.30	41025	"
"	"	"	520							97.76	41030	Up to B. P. standard.
"	"	"	520							97.76	41031	"
"	"	"	485							91.18	41032	Commercial.

BULLETIN No. 222—CREAM OF TARTAR—

TABLE

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF MONTREAL—								
1910								
Sept. 13	Cream of Tartar.	40714	S. H. Ewing & Sons, 98 King st., Montreal.	$\frac{1}{2}$ lb ..	15	Vendors.....		
" 13	" ..	40715	Heron - Leblanc, Ltd., St. Paul st., Montreal.	$\frac{1}{2}$ " ..	15	"		
" 13	" ..	40716	J. V. Boudrias, 223 Notre Dame E., Montreal.	$\frac{1}{2}$ " ..	15	.....		Sold as pure....
" 13	" ..	40717	Nat. Coffee & Spice Co., St. Paul st., Montreal.	$\frac{1}{2}$ " ..	13	.....		" .....
" 13	" ..	40718	Brault, Labelle & Desjardins, 135 St. Paul st., Montreal.	$\frac{1}{2}$ " ..	15	.....	Chaput Fils.	
" 15	" ..	40719	Swift's Provision Stores, 2000 Waverly st., Montreal	$\frac{1}{2}$ " ..	20	.....	
" 15	" ..	40720	E. Martin, 203 Laurier W., Montreal.	3 pks.	30	The Lister Pure Food Co., Ltd., Toronto.		
" 15	" ..	40721	J. J. Duffy & Co., St. Paul st., Montreal.	$\frac{1}{2}$ lb ..	13	.....	
" 16	" ..	40722	Willison Bros., 20 Prince Arthur Co., Montreal.	$\frac{1}{2}$ lb.	20	.....	
" 16	" ..	40723	P. Daoust, 276 Sherbrooke W., Montreal.	3 tins	30	.....		Prince of Wales Brand.
" 16	" ..	40724	J. A. Simard & Cie, 305 St. Paul St., Montreal.	b.	10	Vendors...		
" 20	" ..	40725	Strong & Strong, 480 Lagauchetiere St., Montreal.	3 tins	30	McLarens Ltd. Hamilton.		
" 28	" ..	40726	F. Brais, 709 St. Lawrence B, Montreal.	3 pots	30	The Lister Pure Food Co. Ltd., Toronto.		
" 29	" ..	40727	N. Lionnais, 158 Dorchester St. S, Montreal.	$\frac{1}{2}$ lb.	20	.....	
" 29	" ..	40728	E. Lanoue, 197 Vitre St.	$\frac{1}{2}$ lb.	20	.....		Imperial Brand.

ASP PURCHASED IN GROCERY SHOPS.

II.

[illegible]

J. J. COSTIGAN, INSPECTOR.

p.c.	p.c.	p.c.	p.c.	p.c.		p.c.	p.c.	p.c.	p.c.	p.c.		
None.	None.	None.	470							88·36	40714	Low grade.
"	"	"	500							94·60	40715	Commercial.
Pre-sent.	"	"	375	20·12	Maize	None.	None.	None.	4·30	70·50	40716	Adulterated.
None.	"	"	495							93·06	40717	Commercial.
Pre-sent.	Pre-sent.	Pre-sent.	480	0·08	Maize	0·37	1·55	0·61	5·60		40718	Adulterated.
None.	None.	None.	480							90·24	40719	Commercial.
"	"	"	485							91·18	40720	"
"	"	"	480							90·24	40721	"
None.	None.	None.	480							90·24	40722	"
"	"	"	480							90·24	40723	"
"	"	"	470							88·36	40724	Low grade.
"	"	"	465							87·42	40725	"
"	"	"	485							91·18	40726	Commercial.
Pre-sent	Pre-sent	Pre-sent	475	17·56	Maize	4·20	1·25	10·16	3·40		40727	Adulterated.
None.	None.	None.	520							97·76	40728	Up to B.P. standard.

2 GEORGE V., A. 1912

BULLETIN No. 222—CREAM OF TARTAR—

TABLE

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF OTTAWA—								
1910								
Sept. 7	Cream of Tartar.	43070	Goodall Bros., Ottawa.	1 lb.	20	E. W. Gillett Manufacturers Co., Ltd., Toronto.		
" 8	"	43071	J. F. McEwen, Bank St., Ottawa.	"	20	The J. M. Lowes, Ltd., Toronto.	Provost & Allard, Ottawa.	
" 8	"	43072	H. N. Anstiss, Bank St., Ottawa.	"	20	Unknown		
" 9	"	43074	J. K. Whitlaw, Arnprior.	"	20	Pure Gold Mfg. Co., Toronto.		
" 9	"	43075	W. E. Parsons, Arnprior.	"	20	Unknown	Forbes Bros., Montreal.	
" 13	"	43078	J. C. Brown & Co., Vankleek Hill.	"	18	White Swan Spices and Cereals Ltd., Toronto.	Manufacturers	
" 14	"	43080	J. H. Mendels, Perth. Ont.	"	20	Unknown	Robertson, Nicolle & Co. Smith Falls.	
" 14	"	43081	A. Meighan & Bro., Perth, Ont.	"	20	"	C. H. Cochrane & Co., Ottawa.	
" 20	"	43082	P. C. Leslie & Co., Prescott.	"	20	"	T. W. Chamberlain & Co. Prescott.	
" 20	"	43083	R. A. Scott, Prescott.	"	20	"	Birks Corner & Co., Montreal.	
" 21	"	43085	J. A. Stubinsky, Renfrew.	"	20	"	Robertson, Nicolle & Co. Smith Falls.	
" 26	"	43086	A. P. Johnson, Brons. Ave., Ottawa.	"	20	"	C. H. Cochrane & Co., Ottawa.	
" 26	"	43087	T. Bowman, Som. St., Ottawa.	"	20	"	"	
" 26	"	43088	N. S. Schwerdfager, Som. St., Ottawa.	1 tin	20	Lister Pure Food Co. Ltd. Toronto.	Manufacturers	Labelled Pure French Cream of Tartar. Guaranteed.
" 27	"	43089	Lapensee & Lafleur, Hill St., Ottawa.	1 lb.	20	Unknown	Provost & Allard.	
DISTRICT OF KINGSTON—								
Oct. 7	Cream of Tartar.	46504	W. E. Hopkinson, Kingston.	1 lb.	20		Robertson, Nicolle & Co.,	
" 7	"	46505	Geo. Gibson, Kingston.	"	20		J. M. Lowes, Toronto.	
" 7	"	46506	H. M. Stover, Kingston.	"	20		A. MacLean, Kingston.	

SESSIONAL PAPER No. 14

AS PURCHASED IN GROCERY SHOPS.

II.

RESULTS OF ANALYSIS.

Preliminary Examination.				Determinations.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
Starch.	Sulphates.	Phosphates.	Acidity.	Starch.	Kind.	Alumina.	Phosphoric Acid.	Sulphuric Acid.	Calcium Oxide.	Percentage of Purity.		
J. A. RICKEY, INSPECTOR.												
p. c.	p. c.	p. c.	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.		
None.	None.	None.	525	...		...				98.70	43070	Up to B.P. standard
"	"	"	485	...						91.18	43071	Commercial.
"	"	"	485	...						91.18	43072	"
"	"	"	485	...						91.18	43074	"
Pre-sent	Pre-sent	Pre-sent	550	1.48	Maize	0.50	14.80	10.71	22.20		43075	Adulterated.
None.	None.	None.	480	...						90.24	43078	Commercial.
Pre-sent	Pre-sent	Trace.	500	10.24	Maize	3.82	1.35	7.38	3.90		43080	Adulterated.
None.	None.	None.	480	...						90.24	43081	Commercial.
"	"	"	480	...						90.24	43082	"
"	"	"	480	...						90.24	43083	"
Pre-sent	Pre-sent		515	9.36	Maize	1.40	None.	6.40	3.80		43085	Adulterated.
None.	None.		520	...						97.76	43086	Up to B.P. standard.
"	"		500	...						94.00	43087	Commercial.
"	"	"	480	...						90.24	43088	"
"	"	"	485	...						91.18	43089	"

JAS. HOGAN, INSPECTOR.

Pre-sent.	Pre-sent.	Pre-sent.	480	12.76	Maize	2.94	1.35	10.47	6.00		46504	Adulterated.
None.	None.	None.	470	...						88.36	46505	Low grade.
"	"	"	530	...						99.64	46506	Up to B. P. standard.

BULLETIN No. 222—CREAM OF TARTAR—

TABLE—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF KINGSTON—

1910.								
Oct.	7	Cream of Tartar.	46507 N. J. Arniel, Alford St., Kingston.	$\frac{1}{2}$ lb.	20	.....	N. C. Polson, Kingston.	.....
"	7	"	46508 W. H. Medley, Kingston.	$\frac{1}{2}$ "	20	Unknown	.....	.....
"	7	"	46509 N. J. Nesbitt, Kingston.	$\frac{1}{2}$ "	20	.....	McLarens, Hamilton.	.....
"	7	"	46510 C. H. Pickering, Kingston.	$\frac{1}{2}$ "	20	.....	J. M. Lowes, Toronto.	.....
"	10	"	46511 A. H. Reinecke, Belleville.	$\frac{1}{2}$ "	20	.....	J. Sloan, Belleville.	.....
"	10	"	46512 R. Fenn & Son, Belleville.	$\frac{1}{2}$ "	20	Unknown	.....	.....
"	10	"	46513 Geo. Pearson, Belleville.	$\frac{1}{2}$ "	20	"	.....	.....
"	10	"	46514 J. Panter & Son, Belleville.	3 p'gs.	15	.....	White Swan spices and cereals, Toronto.	.....
"	10	"	46515 J. H. P. Young, Belleville.	$\frac{1}{2}$ lb.	20	.....	Pure Gold Co., Toronto.	.....
"	11	"	46516 W. J. Roulty, Peterboro.	$\frac{1}{2}$ "	20	.....	White Swan spices and cereals, Toronto.	.....
"	11	"	46517 G. O. Brine, Peterboro.	3 tins.	60	.....	Gorman & Eckert, London, Ont.	.....
"	11	"	46518 J. Hill, Peterboro.	3 "	60	.....	Todhunter & Mitchell, Toronto.	.....

DISTRICT OF TORONTO—

Sept.	13	Cream of Tartar.	45124 Fred White, 123 McCaul St., Toronto.	$\frac{1}{2}$ lb.	20	Todhunter, Mitchell & Co., Toronto	.....	Labelled pure Cream of Tartar.
"	13	"	45125 A. B. Coe, 126 Spadina Ave., Toronto.	$\frac{1}{2}$ "	18	"	.....	"
"	14	"	45126 Wm. Andrew, 2 Sydenham St., Toronto.	$2\frac{1}{2}$ "	18	.....	F. W. Humphrey, Toronto.	.....
"	16	"	45127 W. J. Nichol, 52 Queen St. E., Toronto.	$\frac{1}{2}$ "	18	.....	Pure Gold Mfg. Co., Toronto.	.....
"	16	"	45128 Mrs. M. Mickus, 44 St. Clorens Ave., Toronto.	$\frac{1}{2}$ "	20	.....	R. B. Hayhoe & Co., Toronto.	.....
"	20	"	45129 A. R. MacLachlin, King St., Hamilton.	$\frac{1}{2}$ "	20	Young Winfield, Ltd., Hamilton.	.....	.....

SESSIONAL PAPER No. 14

AS PURCHASED IN GROCERY SHOPS.

II.

RESULTS OF ANALYSIS.

Preliminary Examination.				Determinations.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
Starch.	Sulphates.	Phosphate.	Acidity.	Starch.	Kind.	Alumina.	Phosphoric Acid.	Sulphuric Acid.	Calcium Oxide.	Percentage of Purity.		

JAMES HOGAN, INSPECTOR—*Concluded.*

p. c.	p. c.	p. c.	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.		
None.	None.	None.	485	.....	...	.....	.....	.....	.....	91.18	46507	Commercial.
"	"	"	465	.....	.....	.....	.....	.....	.....	87.42	46508	Low grade.
"	"	"	470	.....	.....	.....	.....	.....	.....	88.36	46509	" "
"	"	"	490	.....	.....	.....	.....	.....	.....	92.12	46510	Commercial.
"	"	"	485	.....	.....	.....	.....	.....	.....	91.18	46511	"
"	"	"	475	.....	.....	.....	.....	.....	.....	89.30	46512	"
"	"	"	490	.....	.....	.....	.....	.....	.....	92.12	46513	"
"	"	"	490	.....	.....	.....	.....	.....	.....	92.12	46514	"
"	"	"	485	.....	.....	.....	.....	.....	.....	91.18	46515	"
"	"	"	475	.....	.....	.....	.....	.....	.....	89.30	46516	"
"	"	"	490	.....	.....	.....	.....	.....	.....	92.12	46517	"
"	"	"	525	.....	.....	.....	.....	.....	.....	98.70	46518	Up to B. P. standard.

H. J. DAGER, INSPECTOR.

None.	None.	None.	485	.....	.....	.....	.....	.....	.....	91.18	45124	Commercial.
"	"	"	485	.....	.....	.....	.....	.....	.....	91.18	45125	"
"	"	"	485	.....	.....	.....	.....	.....	.....	91.18	45126	"
"	"	"	465	.....	.....	.....	.....	.....	.....	87.42	45127	Low grade.
"	"	"	490	.....	.....	.....	.....	.....	.....	92.12	45128	Commercial.
"	"	"	480	.....	.....	.....	.....	.....	.....	90.24	45129	"

2 GEORGE V., A. 1912

BULLETIN No. 222—CREAM OF TARTAR—

TABLE

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	COST.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF TORONTO—								
1910.								
Sept. 20	Cream of Tartar.	45130	Jas. Mitchell, 97 York St., Hamilton.	1½ lb.	15	Young Winfield, Ltd., Hamilton.		
" 20	" ..	45131	Jas. Munro, 433 Jas. St. North, Hamilton.	1 lb.	15	" ..		Labelled Youngs' improved Cream of Tartar. Ground pure from selected crystals.
" 20	" ..	45132	C. I. Sanderson, 603 Barton St., Hamilton.	½ lb.	20	Jas. Turner Co Ltd., Hamilton.		Labelled Pure Cream of Tartar.
" 22	" ..	45133	R. G. Harshaw, Orangeville.	½ "	20	.....	Eby Blain Ltd Toronto.	Sold as Cream of Tartar.
" 22	" ..	45134	F. H. Arkell, Orangeville.	½ "	20	.....	H. P. Eckardt Toronto.	.....
" 23	" ..	45135	John McQuaker, Owen Sound.	½ "	20	.....	Unknown	Labelled Pure Cream of Tartar.
" 23	" ..	45136	S. Bronscombe, Owen Sound.	½ "	20	.....	" ..	.....
" 23	" ..	45137	Dealy & White, Owen Sound.	½ "	20	.....	McLaughlin & Sons Co., Owen Sound	Gilletts Cream of Tartar.
" 26	" ..	45138	W. F. Cousins, 509 Easton Ave., Toronto.	1 "	20	.....	F. W. Humphrey, Toronto.	Labelled Pure Cream of Tartar.

DISTRICT OF LONDON—

Sept. 20	Cream of Tartar.	44616	Geo. E. Reynolds, Berton.	1 lb.	30	PureGoldMfg. Co., Toronto.		
" 21	"	44620	Jas. Campbell, Tct-tenham.	½ "	20	Lyman Bros. & Co., Toronto.	Manufacturers	
" 26	"	44629	A. Beattie & Co., Stratford.	1 lb.	30		E. W. Gillett & Co., Toronto.	
" 26	"	44631	J. A. Monteath, Stratford.	3/4 "	30		F. F. Dalley Co., Hamilton	
" 28	"	44632	Chas. Andrews, Seaforth.	½ "	20	Canada Spice Co., London.		
" 28	"	44634	Richard Smith, Seaforth.	3/4 "	30	E. W. Gillett Co., Ltd., Toronto.	Stratford WholesaleGrocery, Stratford.	
" 29	"	44642	Sturday & Co., Goderich.	½ "	20	White Swan Spice Co., Toronto.		
" 29	"	44646	Gillette Chem. Works, Toronto.	3/4 "	30	Vendors.....		

SESSIONAL PAPER No. 14

AS PURCHASED IN GROCERY SHOPS.

II.

RESULTS OF ANALYSIS.

Preliminary Examination.				Determinations.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
Starch.	Sulphates.	Phosphates.	Acidity.	Starch.	Kind.	Alumina.	Phosphoric Acid.	Sulphuric Acid.	Calcium Oxide.	Percentage of Purity.		
H. J. DAGER, INSPECTOR— <i>Concluded.</i>												
p. c.	p. c.	p. c.	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.		
None.	None.	None.	495	..	.....					93.06.	45130 Commercial.
"	"	"	475	.....						89.30	45131
"	"	"	480	.....						90.24.	45132
"	Pre-sent.	Pre-sent.	450	12.18	Maize	2.40	3.64	6.90	5.80	...	45133 Adulterated.	
Pre-sent.	"	Trace.	510	9.58	"	2.73	0.62	7.28	2.80	...	45134	
None.	None.	"	475	.....						89.30	45135 Commercial.
"	"	"	480	.....						90.24	45136
"	"	"	532	.....						100.00	45137 Up to B.P. standard.
"	"	"	500	.....						94.00	45138 Commercial.

T. KIDD, INSPECTOR.

None.	None.	None.	490	...	...	...	...	...	...	92.12	44616	Commercial.
"	"	"	495	...	...	...	...	...	...	93.06	44620	"
"	"	"	525	...	...	...	...	...	...	98.70	44629	Up to B.P. standard.
"	"	"	495	...	...	...	...	...	...	93.06	44631	Commercial.
"	"	"	475	...	...	...	...	...	...	89.30	44632	"
"	"	"	525	...	...	...	...	...	...	98.70	44634	Up to B.P. standard.
"	"	"	490	...	...	...	...	...	...	92.12	44642	Commercial.
"	"	"	525	...	...	...	...	...	...	98.70	44646	Up to B.P. standard.

2 GEORGE V., A. 1912

BULLETIN No. 222—CREAM OF TARTAR

TABLE

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF LONDON—								
1910.								
Sept. 29	Cream of Tartar.	44647	H. R. Long, Goderich.	3 pkts.	30	.....	Gorman Eckert London.	.....
" 30	"	44648	E. Bender, Blythe.	$\frac{1}{2}$ lb.	20	.....	E. Adams & Co. London.	.....
" 30	"	44651	Mrs. Grisdale, Wingham.	$\frac{1}{2}$ "	20	.....	Gillett Co., Toronto.	.....
" 30	"	44653	Ker & Boyd, Wingham.	3 pkts.	30	.....	Gorman Eckert London.	.....
Oct. 7	"	44657	G. H. Wairns, Windsor.	3 "	30	E. W. Gillett Co., Ltd., Toronto.	.....	.....
" 12	"	44659	A. McCormick, London.	$\frac{1}{2}$ lb.	20	Grocery & Spice Co., London.	.....	.....
" 12	"	44662	W. R. Butcher, Marys.	$\frac{1}{2}$ "	20	.....	Todhunter & Mitchell, Toronto.	.....
DISTRICT OF WINDSOR—								
Oct. 3	Cream of Tartar.	42446	Chute & Smith, St. Thomas.	$\frac{1}{2}$ lb.	20	.....	Canada Spice and Grocery Co., London	Labelled Crest Brand absolutely pure Cream of Tartar.
" 3	"	42449	Moylan & Moylan, St. Thomas.	3 pkgs	30	E. W. Gillett Co. Ltd., Toronto.	.....	Labelled Gilletts ground Cream of Tartar guaranteed chemically pure.
" 3	"	42450	E. J. Duncan, St. Thomas.	$\frac{1}{2}$ lb.	20	.....	A. M. Smith & Co. London	.....
" 3	"	42456	C. A. Filby, Aylmer.	$\frac{1}{2}$ "	20	Unknown.	Unknown.	.....
" 4	"	42462	H. B. Hodgkins, Aylmer.	3 pkgs	15	Young Winfield Hamilton.	.....	Labelled Young's improved pure Cream of Tartar.
" 4	"	42464	R. G. Moore, Aylmer.	$\frac{1}{2}$ lb.	20	.....	E. Adams & Co., London	.....
" 4	"	42465	Young & Caven, Aylmer.	$\frac{1}{2}$ "	20	Gillett's Toronto.	.....	.....
" 4	"	42469	J. G. Huter, Aylmer.	3 pkgs	30	E. W. Gillett Co., Ltd., Toronto.	.....	.....
" 5	"	42472	W. T. Gibson, Tillsonburg.	$\frac{1}{2}$ lb.	20	.....	E. Adams & Co., London	.....
" 5	"	42477	J. A. Trestian, Tillsonburg.	$\frac{1}{2}$ "	20	Unknown.	.....	.....
" 5	"	42481	A. M. Smith & Son, Woodstock.	$\frac{1}{2}$ "	25	White Swan Spices & Cereals, Toronto.	.....	.....

SESSIONAL PAPER No. 14

AS PURCHASED IN GROCERY SHOPS.

II.

RESULTS OF ANALYSIS.

Preliminary Examination.

Determinations.

Remarks and Opinion
of the
Chief Analyst.

Starch.	Sulphates.	Phosphates.	Acidity.	Starch.	Kind.	Alumina.	Phosphoric Acid.	Sulphuric Acid.	Calcium Oxide.	Percentage of Purity.	No. of Sample.
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T. KIDD, INSPECTOR—*Concluded.*

p. c.	p. c.	p. c.	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.	
None.	None.	None.	495	93.06	44647 Commercial.
"	"	"	490	.....	.....	.....	.....	.....	.....	92.12	44648 "
"	"	"	530	.....	.....	.....	.....	.....	.....	99.64	44651 Up to B.P. standard.
"	"	"	485	.....	.....	.....	.....	.....	.....	91.18	44653 Commercial.
"	"	"	525	.....	.....	.....	.....	.....	.....	98.70	44657 Up to B.P. standard.
"	"	"	460	.....	.....	.....	.....	.....	.....	86.48	44659 Low grade.
"	"	"	485	.....	.....	.....	.....	.....	.....	91.18	44662 Commercial.

JNO. TALBOT, INSPECTOR.

None.	None.	None.	465	.....	.....	.....	.....	.....	.....	87.42	42446 Low grade.
"	"	"	530	.....	.....	.....	.....	.....	.....	99.64	42449 Up to B. P. standard.
"	"	"	490	.....	.....	.....	.....	.....	.....	92.12	42450 Commercial.
"	"	"	490	.....	.....	.....	.....	.....	.....	92.12	42456 "
"	"	"	485	.....	.....	.....	.....	.....	.....	91.18	42462 "
"	"	"	490	.....	.....	.....	.....	.....	.....	92.12	42464 "
"	"	"	525	.....	.....	.....	.....	.....	.....	98.70	42465 Up to B. P. standard.
"	"	"	525	.....	.....	.....	.....	.....	.....	98.70	42469 "
"	"	"	505	.....	.....	.....	.....	.....	.....	94.94	42472 Commercial.
"	"	"	480	.....	.....	.....	.....	.....	.....	90.24	42477 "
"	"	"	480	.....	.....	.....	.....	.....	.....	90.24	42481 "

2 GEORGE V., A. 1912

BULLETIN No. 222—CREAM OF TARTAR—

TABLE

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF WINDSOR—								
1910.								
Oct. 6	Cream of Tartar.	42486	Jno. Scott & Co., Woodstock.	$\frac{1}{2}$ lb..	24	E. W. Gillett Co. Ltd., Toronto.		Gillett's Cream of Tartar, absolutely pure.
" 6	"	42487	Canada Spice & Grocery Co., London	3 pkgs	20	Vendors		
" 6	"	42488	Gorman Eckert & Co., London.	3 " "	nil	"		
" 6	"	42489	L. X. L. Spice & Coffee Co., London	3 " "	18	"		
DISTRICT OF CALGARY—								
Sept. 23	Cream of Tartar.	43904	R. V. Shaw & Co., Calgary.	$\frac{1}{2}$ lb..	20	Georgeson & Co., Ltd., Calgary.		
" 23	"	43905	Jenkins & Comfoot, Calgary.	$\frac{1}{2}$ " "	20	"		
" 23	"	43906	R. J. Frizzle, Calgary.	3 pkgs	30	E. W. Gillett Co., Ltd., Toronto.		
" 27	"	43907	Gorgeson & Co., Ltd., Calgary.	3 " "	30	Vendors		
" 27	"	43908	L. T. Mewburn & Co., Calgary.	3 " "	30	E. W. Gillett Co., Ltd.		
" 27	"	43909	G. F. & J. Galt, Ltd., Calgary.	3 " "	30	Vendors		
" 27	"	43910	Campbell, Wilson & Horne, Calgary.	3 " "	30	E. W. Gillett Co., Ltd.		
" 29	"	43911	O. H. Johnson, Wetaskiwin.	3 " "	30	Georgeson & Co., Ltd.		
" 29	"	43912	Fowler & Co., Wetaskiwin.	3 pkgs	45	E. W. Gillett Co., Ltd.		
" 30	"	43913	Gilbert Berg, Edmonton.	3 " "	30	"		
" 30	"	43914	L. Levesque, Edmonton,	$\frac{1}{2}$ lb..	20	"		
" 30	"	43915	W. Hencher, Edmonton.	$\frac{1}{2}$ " "	25	The White Star Mfg. Co., Winnipeg.		
" 30	"	43016	Aitken Bros., Edmonton.	3 pkgs	30	E. W. Gillett Co., Ltd., Toronto.		
" 30	"	43917	A. Livingstone, Edmonton.	3 " "	30	"		
" 30	"	43918	Hallier & Aldridge, Edmonton.	$\frac{1}{2}$ lb..	20	Shirriffs Imperial Ext. Co., London.		

SESSIONAL PAPER No. 14

AS PURCHASED IN GROCERY SHOPS.

II.

RESULTS OF ANALYSIS.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Preliminary Examination.				Determinations.								
Starch.	Sulphates.	Phosphates.	Acidity.	Starch.	Kind.	Alumina.	Phosphoric Acid.	Sulphuric Acid.	Calcium Oxide.	Percentage of Purity		

JNO. TALBOT, INSPECTOR—*Concluded.*

p. c.	p. c.	p. c.	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.		
None.	None.	None.	530	.....	.....	.....	.....	.....	.....	99.64	42486	Up to B. P. standard.
"	"	"	450	.....	.....	.....	.....	.....	5.10	84.60	42487	Low grade.
"	"	"	525	.....	.....	.....	.....	.....	.....	98.70	42488	Up to B. P. standard.
"	"	"	490	.....	.....	.....	.....	.....	.....	92.12	42489	Commercial.

R. W. FLETCHER, INSPECTOR.

None.	None.	None.	525	.....	.....	.....	.....	.....	.....	98.70	43904	Up to B. P. standard.
"	"	"	525	.....	.....	.....	.....	.....	.....	98.70	43905	"
"	"	"	530	.....	.....	.....	.....	.....	.....	99.64	43906	"
"	"	"	520	.....	.....	.....	.....	.....	.....	97.76	43907	"
"	"	"	525	.....	.....	.....	.....	.....	.....	98.70	43908	"
"	"	"	495	.....	.....	.....	.....	.....	.....	93.06	43909	Commercial.
"	"	"	530	.....	.....	.....	.....	.....	.....	99.64	43910	Up to B. P. standard.
"	"	"	530	.....	.....	.....	.....	.....	.....	99.64	43911	"
"	"	"	530	.....	.....	.....	.....	.....	.....	99.64	43912	"
"	"	"	530	.....	.....	.....	.....	.....	.....	99.64	43913	"
"	"	"	520	.....	.....	.....	.....	.....	.....	97.76	43914	"
"	"	"	475	.....	.....	.....	.....	.....	.....	89.30	43915	Commercial.
"	"	"	520	.....	.....	.....	.....	.....	.....	97.76	43916	Up to B. P. standard.
"	"	"	530	.....	.....	.....	.....	.....	.....	99.64	43917	"
"	"	"	490	.....	.....	.....	.....	.....	.....	92.12	43918	Commercial.

2 GEORGE V., A. 1912

BULLETIN No. 222—CREAM OF TARTAR

TABLE

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF VANCOUVER—

1910.								
Oct.	6	Cream of Tartar.	38019	Geo. Adams, New Westminister.	$\frac{1}{2}$ lb.	25	..... Kelly Douglas Vancouver.	
"	6	"	38020	T. S. Annandale, N. Westminister.	$\frac{1}{2}$ "	30	E. W. Gillett Co., Ltd.	
"	6	"	38021	C. A. Welsh, New Westminister.	$\frac{1}{2}$ "	25	"	
"	6	"	38022	Co-operative Association, New Westminister.	$\frac{1}{2}$ "	25	..... W. Braid & Co	
"	10	"	38023	H. A. Edgett & Co., Vancouver.	$\frac{1}{2}$ "	25	E. W. Gillett Co. Ltd.	
"	10	"	38024	Dom. Grocery, Vancouver.	$\frac{1}{2}$ "	25	..... Kelly Douglas	
"	10	"	38025	F. Fillion, Vancouver.	$\frac{1}{2}$ "	25	E. W. Gillett Co. Ltd.	
"	10	"	38026	McCullough Bros., Vancouver.	$\frac{1}{2}$ "	25	"	
"	10	"	38027	S. T. Wallace, Vancouver.	$\frac{1}{2}$ "	25	..... Wm. Braid & Co.	
"	10	"	38028	Ideal Grocery, Vancouver.	$\frac{1}{2}$ "	25	E. W. Gillett Co. Ltd.	
"	10	"	38029	A. & C. Grocery, Vancouver.	$\frac{1}{2}$ "	25	.....
"	10	"	38030	London Grocery, Vancouver.	$\frac{1}{2}$ "	20	Unknown	
"	10	"	38031	Walford & Roney, Vancouver.	$\frac{1}{2}$ "	25	E. W. Gillett Co. Ltd.	
"	10	"	38032	S. F. McCreedy, Vancouver.	$\frac{1}{2}$ "	25	..... Wm. Braid & Co.	
"	10	"	38033	S. Bell, Fairview, Vancouver.	$\frac{1}{2}$ "	25	E. W. Gillett Co. Ltd.	

DISTRICT OF VICTORIA—

Oct.	12	Cream of Tartar.	44940	Windsor Grocery Co., Victoria, B.C.	$\frac{1}{2}$ lb.	25	..... Poiner Coffee & Spice Mills, Victoria, B.C.	
"	12	"	44941	West End Grocery Co., Ltd., Victoria, B.C.	$\frac{1}{2}$ "	25	E. W. Gillett Co., Ltd., Toronto.	
"	12	"	44942	Saunders Grocery Co., Ltd., Victoria, B.C.	$\frac{1}{2}$ "	20	Unknown	Unknown.
"	12	"	44943	Copas & Young, Victoria, B.C.	$\frac{1}{2}$ "	20	Pure Gold Mfg. Co., Ltd., Toronto.	Pure Gold Cream of Tartar
"	13	"	44944	H. O. Kirkham, Victoria, B.C.	$\frac{1}{2}$ "	20	Braid & Co., Vancouver.	

SESSIONAL PAPER No. 14
AS PURCHASED IN GROCERY SHOPS.

II.

RESULTS OF ANALYSIS.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Preliminary Examination.				Determinations.								
Starch.	Sulphates.	Phosphates.	Acidity.	Starch.	Kind.	Alumina.	Phosphoric Acid.	Sulphuric Acid.	Calcium Oxide.	Percentage of Purity.		

J. F. POWER, INSPECTOR.

p. c.	p. c.	p. c.	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.		
None	None.	None.	525	.....	.....	.....	.....	.....	.....	98.70	38019	Up to B. P. standard.
"	"	"	532	.....	.....	.....	.....	.....	.....	100.00	38020	"
"	"	"	530	.....	.....	.....	.....	.....	.....	99.64	38021	"
"	"	"	490	.....	.....	.....	.....	.....	.....	92.12	38022	Commercial.
"	"	"	525	.....	.....	.....	.....	.....	.....	98.70	38023	Up to B. P. standard.
"	"	"	485	.....	.....	.....	.....	.....	.....	91.18	38024	Commercial.
"	"	"	525	.....	.....	.....	.....	.....	.....	98.70	38025	Up to B. P. standard.
"	"	"	525	.....	.....	.....	.....	.....	.....	98.70	38026	"
"	"	"	480	.....	.....	.....	.....	.....	.....	90.24	38027	Commercial.
"	"	"	530	.....	.....	.....	.....	.....	.....	99.64	38028	Up to B. P. standard.
"	"	"	520	.....	.....	.....	.....	.....	.....	97.76	38029	"
"	"	"	500	.....	.....	.....	.....	.....	.....	94.00	38030	Commercial.
"	"	"	490	.....	.....	.....	.....	.....	.....	92.12	38031	"
"	"	"	505	.....	.....	.....	.....	.....	.....	94.94	38032	"
"	"	"	510	.....	.....	.....	.....	.....	.....	95.88	38033	"

D. O'SULLIVAN, INSPECTOR.

None	None.	None.	475	.....	.....	.....	.....	.....	.....	89.30	44940	Commercial.
"	"	"	530	.....	.....	.....	.....	.....	.....	99.64	44941	Up to B. P. standard.
"	"	"	475	.....	.....	.....	.....	.....	.....	89.30	44942	Commercial.
"	"	"	525	.....	.....	.....	.....	.....	.....	98.70	44943	Up to B. P. standard.
"	"	"	485	.....	.....	.....	.....	.....	.....	91.18	44944	Commercial.

2 GEORGE V., A. 1912

BULLETIN No. 222—CREAM OF TARTAR

TABLE

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF VICTORIA—								
1910.								
Oct. 17	Cream of Tartar.	44945	J. Bailey, Victoria, B.C.	½ lb ..	25	Empress Mfg. Co., Vancouver.		
" 17	" ..	44946	F. E. Plummer, Victoria, B.C.	½ " ..	20		Simon Leiser & Co., Victoria, B.C.	
" 17	" ..	44947	Erskine & Lee, Victoria, B.C.	½ " ..	20		R. P. Rithet & Co. Victoria, B.C.	
" 17	" ..	44948	D. H. Ross & Co., Victoria, B.C.	½ " ..	20		Wilson Bros., Victoria, B.C.	
" 18	" ..	44949	Harrison & McDonald, Victoria, B.C.	3 pkgs	30	E. W. Gillett Co., Ltd., Toronto.		
" 18	" ..	44950	Acton Bros., Victoria, B.C.	½ lb...	20	" ..		
" 18	" ..	44951	W. B. Hall, Victoria, B.C.	½ " ..	20		Pioneer Coffee & Spice Mills, Victoria, B.C.	
" 18	" ..	44952	L. Dickinson, Victoria, B.C.	½ " ..	20	Pure Gold Mfg. Co., Ltd., Vancouver.		
" 18	" ..	44953	J. Renouf, Victoria, B.C.	½ " ..	20	E. W. Gillett Co., Ltd., Toronto.		
" 19	" ..	44954	Woods & White, Victoria, B.C.	½ " ..	20		Wilson Bros., Victoria, B.C.	

SESSIONAL PAPER No. 14

AS PURCHASED IN GROCERY SHOPS.

II.

RESULTS OF ANALYSIS.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Preliminary Examination.				Determinations.								
Starch.	Sulphates.	Phosphates.	Acidity.	Starch.	Kind.	Alumina.	Phosphoric Acid.	Sulphuric Acid.	Calcium Oxide.	Percentage of Purity.		

D. O'SULLIVAN, INSPECTOR:—*Concluded.*

p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	
None.	None.	None.	490	.....	.....	.....	.....	.....	92.12	44945	Commercial.
"	"	"	532	.....	.....	.....	.....	.....	100.00	44946	Up to B. P. standard.
"	"	"	520	.....	.....	.....	.....	.....	97.76	44947	" "
"	"	"	520	.....	.....	.....	.....	.....	97.76	44948	" "
"	"	"	530	.....	.....	.....	.....	.....	99.64	44949	" "
"	"	"	532	.....	.....	.....	.....	.....	100.00	44950	" "
"	"	"	475	.....	.....	.....	.....	.....	89.30	44951	Commercial.
"	"	"	510	.....	.....	.....	.....	.....	95.88	44952	"
"	"	"	525	.....	.....	.....	.....	.....	98.70	44953	Up to B. P. standard.
"	"	"	530	.....	.....	.....	.....	.....	99.64	44954	" "

APPENDIX R.

BULLETIN No. 223—VINEGAR.

OTTAWA, April 4, 1911.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR,—I beg to hand you a report upon one hundred and forty three (143) samples of Vinegar, purchased by our inspectors throughout Canada in October of last year.

Analytical results appear in the case of only 84 of these samples. The remaining 59 samples were lost in the fire which destroyed our laboratories on the 4th of January. Some work had been done upon most of these samples, but the records are not available, having perished in the fire.

It was intended that the work upon this collection, together with that published in Bulletins 35 and 168 should form a basis for the classification of Vinegar as found in Canada. The meagre results attained, make it impossible to attempt the carrying out of the original plan; and it will be necessary to wait until we can make another systematic inspection of vinegar.

Vinegar appears to be marketed in Canada as Malt Vinegar, White Wine Vinegar and Cider Vinegar, or simply as Vinegar, without any distinctive name. It is probable that much of the vinegar offered is fundamentally a spirit vinegar, with additions of flavouring and colouring matter which imitate malt, cider and wine vinegars. There is the further suspicion that considerable amounts of acetic acid, made by the destructive distillation of wood, as a bye-product in the wood spirit industry, are employed in vinegar making, and, of course, without acknowledgment of the fact.

Provided that the acid so used is properly refined, it is identical with refined acetic acid from any other source, and is unobjectionable from the point of view of healthfulness. But, being entirely flavourless, it is not a vinegar, and cannot be sold as such unless artificially flavoured; when, if sold at all, it should be honestly labelled as artificial or imitation vinegar. There can be no doubt that the genuine vinegar industry suffers a serious handicap through the unfair competition of factitious substitutes for vinegar; or that the buyer who desires a genuine vinegar is frequently deceived by the substitution of a spurious article, whether with or without knowledge of that fact by the retailer. Nor can this undesirable condition of things be successfully met until a workable definition of vinegar, in the generic sense, is made legal; and until the various kinds of vinegar which are found in commerce, are recognized and defined by law.

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The following scheme of classification and definition is to be regarded as a first attempt to bring the matter into a shape in which we can deal with it. The definitions are very incomplete, and require to have written into them numerical constants which have not yet been determined, and for the fixing of which I had hoped that the collection of vinegars now reported would have formed helpful material.

PROPOSED VINEGAR STANDARDS.

1. Vinegar is a liquid containing not less than 4 grams of acetic acid, nor more than 8 grams of acetic acid per 100 cubic centimeters; and when sold or offered for sale under a name which indicates a particular source, as Cider Vinegar, Malt Vinegar, Wine Vinegar, &c., it must be actually derived from such source.

2. Concentrated Vinegar, Vinegar Essence, &c., is a liquid containing more than 8 per cent of acetic acid, and must contain nothing which, when it is diluted to the strength of vinegar and used as such, is harmful to health.

(Consider a limit to reducing impurities, &c.)

3. Spirit Vinegar, Alcohol Vinegar, &c., is vinegar made by the acetous fermentation of diluted distilled alcohol.

4. Wine Vinegar, is vinegar made by the alcoholic and subsequent acetous fermentation of the juice of sound, ripe grapes.

5. Malt Vinegar, is vinegar made by the alcoholic and subsequent acetous fermentation, without distillation, of an infusion of malt with or without the addition of other starchy or saccharine materials.

6. Cider Vinegar, Apple Vinegar, is vinegar made by the alcoholic and subsequent acetous fermentation of the juice of sound, ripe apples.

7. Sugar Vinegar, is vinegar made by the alcoholic and subsequent acetous fermentation of a solution of sugar.

8. Glucose Vinegar, is vinegar made by the alcoholic and subsequent acetous fermentation of a solution of glucose or glucose syrup.

9. Acetic Acid Vinegar, is vinegar made by the proper dilution of pure acetic acid with water.

10. Blended Vinegar, is vinegar made by a mixture of two or more of the above species of vinegar.

NOTE.—Imitation Vinegar, is vinegar made from dilute pure acetic acid, flavoured to imitate any of the above kinds of vinegar; and may have the name of the kind of vinegar imitated, added to the words 'Imitation vinegar.' Thus, Imitation Malt Vinegar: Imitation Wine Vinegar, &c.

NOTE.

1. When vinegar is asked for, it is held legally proper to supply any one of the above named species. When a specific vinegar is asked for, it is unlawful to substitute another kind, without declaration of the fact.

2. Numerical values will be fixed for the different species of vinegar, as soon as this department is in possession of trustworthy data sufficient to justify such action.

3. Acetic acid means the hydrated acid, $C_4H_6O_3 + H_2O = 2C_2H_4O_2$. Molecular weight = 60.

One cubic centimetre of a normal solution contains 60 milligrammes of acetic acid.

Of the samples which I am now able to report upon, 18 are sold as Cider Vinegars; 17 as White Wine Vinegars and 8 as Malt Vinegars. If the composition of these various species of vinegar, as herein recorded, be tabulated under the above headings; it will be evident that, either there is great indefiniteness in the composition of a vinegar species, or most of the samples are not true to name.

CIDER VINEGARS.

	Acetic Acid.	Solids p. c.	Ash p. c.
42150	2.69	1.302	0.202
42153	3.98	0.722	0.078
42154	4.68	2.118	0.300
42155	4.56	2.206	0.368
42159	4.68	2.768	0.374
45921	4.51	0.168	0.026
45929	2.95	1.828	0.364
45349	4.63	2.370	0.384
45350	4.63	1.114	0.132
45353	3.86	1.728	0.256
45355	3.93	2.348	0.344
45356	3.93	2.152	0.328
45357	2.52	1.766	0.416
41044	4.13	0.996	0.094
40740	4.80	2.654	0.280
45156	5.37	2.038	0.254
45158	4.77	2.042	0.316
42433	4.17	2.190	0.216

The requirements of the United States Standards for Cider Vinegar are, 4 per cent acetic acid, 1.6 per cent solids and 0.25 ash, as minima.

WHITE WINE VINEGARS.

	Acetic acid.	Solids p. c.	Ash p. c.
42151	3.55	0.082	0.017
42152	4.94	0.612	0.060
42158	4.51	0.044	0.018
45922	3.88	0.504	0.044
45925	3.48	0.144	0.029
45927	3.07	0.076	0.012
45930	4.40	0.156	0.032
45352	5.23	0.184	0.026
45354	3.86	0.038	0.006
45358	3.16	0.056	0.004
40739	4.46	0.112	0.016
45155	5.21	0.759	0.032
45157	5.13	0.136	0.020
42432	3.94	1.968	0.228
43948	2.67	0.090	0.018
43949	5.30	0.450	0.072
44959	4.68	1.804	0.212

The United States requirements for Wine Vinegar are 4 per cent acetic acid ; 1.0 per cent solids and 0.13 per cent ash.

MALT VINEGAR.

	Acetic acid.	Solids p. c.	Ash p. c.
42156	4.46	2.248	0.396
42157	3.22	0.050	0.010
45923	2.77	2.168	0.306
45924	3.96	0.928	0.054
45926	4.01	1.686	0.176
45928	3.84	0.150	0.016
45151	4.08	2.388	0.178
45154	4.90	2.280	0.248

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The United States requirements for Malt Vinegar are 4 per cent acetic acid ; 2 per cent solids and 0.20 per cent ash, as minima.

The United States standards quoted have been called in question, as being unfair to the manufacturer, and as being insufficient to protect the consumer. It must be confessed that the great variability of composition exhibited by commercial samples of vinegar, purporting to be of the same species, makes it very difficult to give an exact and effective description of vinegar species. I understand* that the United States Department of Agriculture is making a first hand study of Cider Vinegar in order to establish its constants. Something of this nature seems to be needed as regards other than Cider Vinegars, and we shall endeavour as far as possible to obtain data which may help in this connection.

I beg to recommend the publication of this report as Bulletin No. 223.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,
Chief Analyst.

Proc. Roy. Soc. Dec. 1910, p. 769.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA—

1910.							
Oct. 17	Vinegar...	42150	J. F. Crowe & Co., Ltd, Halifax, N.S.	1½ pts.	5	AnnapolisVinegarCo., Bridgetown, N.B.	Manufacturer
" 17	" ..	42151	" ..	1½ "	5	D. W. Wilson, Toronto	"
" 17	" ..	42152	Nat. Drug & Chem. Co., Halifax, N.S.	1½ "	5	Vendors.	.....
" 17	" ..	42153	" ..	1½ "	5	" ..	.....
" 17	" ..	42154	T. J. Brown, Halifax, N.S.	1½ "	11	M. W. Graves & Co., Bridgetown, N.S.	Manufacturers.
" 17	" ..	42155	W. J. Hopgood & Son, Halifax, N.S.	1½ "	8	" ..	.....
" 17	" ..	42156	City Provision Store, Halifax, N.S.	1 qt.	20	Gamble & Co., Lon- don, Eng.	Jno. Tobin & Co., Halifax.
" 17	" ..	42157	F. W. Hodgson, Hali- fax, N.S.	1 "	10	E. Tracey, Halifax, N.S.	Manufacturers
" 18	" ..	42158	E. S. Tracey, Halifax, N.S.	1½ pts.	nil	Vendor .....	.....
" 20	" ..	42159	S. L. Cross, Kentville, N.S.	1½ "	6	Stand. Vinegar Co., Berwick, N.S.	Manufacturers.

DISTRICT OF PRINCE EDWARD ISLAND

Sept. 12	Vinegar...	45921	P. A. Smith, Charlotte- town.	1 qt.	14	Thos. McCready, St. John, N.B.	.....
" 13	" ..	45922	S. P. Duffy, Charlotte- town.	1 "	12	.....	J. A. Farquharson, Charlottetown.
" 13	" ..	45923	Jno. McKenna, Char- lottetown.	1 "	14	.....	H. Haszard, Char- lottetown.
" 15	" ..	45924	Stewart & Son, Char- lottetown.	1 "	18	Thos. McCready, St. John, N.B.	.....
" 15	" ..	45925	Geo. Rackham, Char- lottetown.	1 "	12	Carvell Bros., Char- lottetown.	.....
" 16	" ..	45926	Geo. Forbes, Vernon River Bridge.	1 "	14	.....	Carvell Bros., Char- lottetown.
" 16	" ..	45927	J. T. Morrissey, Ken- lock.	1 "	18	.....	J. A. Farquharson, Charlottetown.
" 17	" ..	45928	Jas. St. C. Moore, El- don.	1 "	22	.....	Auld Bros., Char- lottetown.
" 23	" ..	45929	Jas. Kennedy, Ken- sington.	1 "	14	Excelsior Vinegar Co., St. John, N.B.
" 24	" ..	45930	R. T. Holman, Sum- merside.	1 "	18	H. J. Heinz, Pitts- burg, Pa.

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VINEGAR.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.							No. of Sample.
	Acetic Acid, C ₂ H ₄ O ₂	Solids in 100 cc.	Ash in 100 cc.	Reaction of Ash.	Chlorides.	Sulphates.	Reaction with Sulphuretted Hydrogen.	Alcohol by Weight.

R. J. WAUGH, INSPECTOR.

	p. c.	p. c.	p. c.					p. c.	
Cider vinegar.	2.69	1.302	0.202	Alkaline..	Trace....	Distinct trace.	None		42150
White wine vinegar. ..	3.55	0.082	0.017	" ..	None ..	Trace....	" ..		42151
" ..	4.94	0.612	0.060	" ..	Trace....	" ..	" ..		42152
Cider vinegar.....	3.98	0.722	0.078	" ..	Slight trace.	" ..	" ..		42153
" ..	4.68	2.118	0.300	" ..	Trace....	" ..	" ..		42154
" ..	4.36	2.206	0.368	" ..	" ..	" ..	" ..		42155
Malt vinegar.....	4.46	2.248	0.396	Neutral..	Distinct trace.	Consider- able trace.	" ..		42156
Labelled pure malt vinegar.	3.22	0.050	0.010	Alkaline..	None ...	Trace....	" ..		42157
White wine XXX vinegar.	4.51	0.044	0.018	" ..	" ..	None	" ..		42158
Cider vinegar.	4.68	2.768	0.374	" ..	Trace....	Slight trace.	" ..		42159

THEO. MOORE, INSPECTOR.

XXX cider vinegar. ..	4.51	0.168	0.026	Alkaline..	Trace....	Distinct trace.	None		45921
White wine vinegar. ..	3.88	0.504	0.044	" ..					45922
Malt vinegar.....	2.77	2.168	0.306	" ..	Distinct trace.	Distinct trace.	None		45923
" ..	3.96	0.928	0.054	" ..					45924
White wine vinegar. ..	3.48	0.144	0.024	" ..					45925
Malt vinegar.....	4.01	1.686	0.176	" ..					45926
White wine vinegar. ..	3.07	0.076	0.012	" ..					45927
Malt vinegar.....	3.84	0.150	0.016	" ..					45928
Cider vinegar.	2.95	1.828	0.364	" ..	Distinct trace.	Distinct trace.			45929
White wine vinegar. ..	4.40	0.156	0.032	" ..					45930

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NEW BRUNSWICK—

1910							
Sept. 20	Vinegar.	45349	G. A. Troop & Co., St. John, N.B.	1 qt.	10	Vendor	
" 20	"	45350	The Excelsior Vinegar Co., St. John, N.B.	1 "	10	"	
" 20	"	45351	The Excelsior Vinegar Co., St. John, N.B.	1 "	10	"	
" 21	"	45352	T. McCready & Sons, Ltd., St. John, N.B.	1 "	10	"	
" 21	"	45353	McPherson Bros., St. John, N.B.	1 "	10		Baird & Peters, St. John.
" 21	"	45354	Harry G. McBeach, St. John, N.B.	1 "	10	The Standard Vinegar Co. Ltd., Stouffville, Ont.	
Oct. 4	"	45355	H. C. Jewett, Fredericton, N.B.	1 "	10	M. W. Graves & Co., Bridgetown.	
" 5	"	45356	John Graham Estate, Woodstock, N.B.	1 "	10	M. W. Graves & Co., Bridgetown.	
" 17	"	45357	G. F. Smith, Sussex, N.B.	1 "	10		F. P. Reed & Co. Ltd., Moncton.
" 18	"	45358	2 Barkers, Ltd., Moncton, N.B.	1 "	10	Canadian Beverage Co. Ltd., Amherst, N.S.	

DISTRICT OF QUEBEC

Sept. 19	Vinegar.	36316	Hamel & Belard, 728 Rue St. Valier, Quebec.	1½ pts.	13	St. Lawrence Co.	Manufacturers
" 20	"	36317	A. Rinfret, 114 Rue St. Joseph, Quebec.	1½ "	13	Unknown.. ..	Bovinis & Grenier...
" 20	"	36318	A. Rinfret, 114 Rue St. Joseph, Quebec.	1½ "	9	"	"
" 21	"	36319	Cantin & Frere, 271 Rue St. Joseph, Quebec.	1½ "	15	Eureka Vinegar.....	Manufacturer
" 21	"	36320	Cantin & Frere, 271 Rue St. Joseph, Quebec.	1½ "	15	"	"
" 21	"	36321	Cantin & Frere, 271 Rue St. Joseph, Quebec.	1½ "	20	"	"
" 22	"	36322	O. Lacroix, 19 Rue St. Joseph, Quebec.	1 bot.	25	Holbrooks, London...	J. B. Reneaud & Cie.
" 22	"	36323	O. Lacroix, 19 Rue St. Joseph, Quebec.	1 "	15	T. Cessat, Jeunes, Bordeaux.	A. Toussaint & Cie., Quebec.
" 22	"	36324	O. Lacroix, 19 Rue St. Joseph, Quebec.	1 "	25	Lovet Frere & Co., Bordeaux.	U. Francoeur, Quebec
" 22	"	36325	O. Lacroix, 19 Rue St. Joseph, Quebec.	1½ pts.	15	St. Lawrence Co.	Manufacturers

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VINEGAR.

Inspector's Report. (Is not an expression of opinion)	RESULTS OF ANALYSIS.						
	Acetic Acid C ₂ H ₄ O ₂	Solids in 100 c. c.	Ash in 100 c. c.	Reaction of Ash.	Chlorides.	Sulphates.	Reaction with Sulph- ureted Hydrogen.	Alcohol by Weight.

J. C. FERGUSON, INSPECTOR.

	p.c.	p.c.	p.c.					
Apple Cider Vinegar..	4.63	2.370	0.384	Alkaline..	Trace . . .	Slight trace.	None.....	45349
Cider Vinegar.....	4.63	1.114	0.132	"	None . . .	Trace . . .	"	45350
Spirit Vinegar.....	6.88	0.188	0.022	Neutral...	"	"	"	45351
White Wine Vinegar..	5.23	0.184	0.026	Alkaline..	"	None . . .	"	45352
Cider Vinegar.....	3.86	1.728	0.256	"	Slight trace.	Distinct traces.	"	45353
White Wine Vinegar..	3.86	0.038	0.006	"	"	None.....	"	45354
Apple Cider Vinegar..	3.93	2.348	0.344	"	"	"	"	45355
Apple Cider Vinegar.	3.93	2.152	0.328	"	"	"	"	45356
Cider Vinegar, (Pyra- mid Brand.)	2.52	1.766	0.416	"	Distinct traces.	Distinct trace.	None.....	45357
White Wine Vinegar..	3.16	0.056	0.004	"	Slight trace.	None.....	"	45358

E. BELAND, INSPECTOR.

.....	7.48	0.370	0.040	Neutral...	None . . .	Distinct traces.	None.....	36316
.....	7.72	0.412	0.064	Alkaline..	Distinct traces.	"	"	36317
.....	5.40	0.272	0.032	"	Trace.....	Distinct trace.	"	36318
.....	8.37	0.244	0.060	"	"	Trace.....	"	36319
.....	7.92	0.182	0.044	"	None..	None.....	"	36320
.....	3.50	3.712	0.460	"	Distinct traces.	C'nsid'rble amount.	"	36321
.....	5.40	3.534	0.364	"	Trace...	"	"	36322
.....	9.67	10.530	0.508	"	C'nsid'rble amount.	Distinct traces.	"	36323
.....	6.72	0.216	0.044	"	None.....	Trace.....	"	36324
.....	6.88	0.320	0.026	"	Distinct traces.	Distinct trace.	"	36325

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF ST. HYACINTHE

1910							
Sept. 17	Vinegar.	41043	R. O. Brodeur, St. Hy-	1 qt..	13		
			acinthe.				
" 19	"	41044	May & Houlihan, Sher-	1 " ..	10		
			brooke.				
" 19	"	41045	Alfred Lanctot, Sher-	1 " ..	7		
			brooke.				
" 19	"	41046	Bernard & Co., Sher-	1 " ..	10		
			brooke.				
" 19	"	41047	Theriault & Leclerc, 1	" ..	10		
			Sherbrooke.				
" 19	"	41048	N. Lacroix, Sherbrooke	1 " ..	10		
" 20	"	41049	Biron & Blouin, Sher	1 " ..	10	Wilson, L.B., Toronto	
			brooke.				
" 20	"	41050	W. B. Murray, Sher-	1 " ..	10		
			brooke.				
" 20	"	41051	V. Archambault, Sher-	1 " ..	10		
			brooke.				
" 20	"	41052	Hebert & Fortier, Sher-	1 " ..	10		
			brooke.				

DISTRICT OF MONTREAL—

Sept. 14	Vinegar.	40739	L. S. Guay, 124 Sher-	1 qt..	15		
			brooke W. Montreal				
" 14	"	40740	Hutton Bros., St. An-	1 " ..	15	RobMt.illar, Montreal	
			toine St., Montreal.				
" 14	"	40741	Joseph Landry, 683 St.	1 " ..	10		Laporte Martin Ltd.
			James St., Montreal				
" 15	"	40742	A. Menard, 20 Prince	1 " ..	10		Hudon Hebert Co., Ltd.
			Arthur E., Montreal				
" 15	"	40743	J. E. Lemay, 325 Clark	1 " ..	10		
			St., Montreal.				
" 15	"	40744	Swift's Provision Store,	1 " ..	15		
			2000 Waverly St.,				
			Montreal.				
" 15	"	40745	E. Martin, 203 Laurier	1 " ..	7		
			W. Montreal.				
" 16	"	40746	Willison Bros., 201	" ..	15		
			Prince Arthur W.,				
			Montreal.				
" 16	"	40747	P. Daoust, 276 Sher-	1 " ..	15		
			brooke St. W., Mon-				
			trealm.				
" 16	"	40748	M. O'Reilly, 58 James	1 " ..	15		
			St., Montreal.				

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VINEGAR.

Inspector's Report. (Is not an expression of opinion.)	RESULTS OF ANALYSIS.							No. of Sample.
	Acetic acid $C_2H_4O_2$	Solids in 100 cc.	Ash in 100 cc.	Reaction of ash.	Chlorides.	Sulphates.	Reaction with Sulphuretted Hydrogen.	Alcohol by weight.

J. J. COSTIGAN, ACTING INSPECTOR.

	p.c.	p.c.	p.c.					p.c.	
.....	5.23	0.260	0.012	Alkaline..	Trace....	Trace....	None.....	0.89	41043
Cider Vinegar.....	4.13	0.996	0.094	"	Distinct traces.	Distinct traces.	"	0.11	41044
.....	4.32	0.208	0.070	"	Present...	Trace....	"	0.37	41045
.....	6.00	0.126	0.026	"	None.....	"	"	0.42	41046
.....	4.02	0.112	0.018	"	Slight trace.	"	"	Trace....	41047
.....	4.08	0.086	0.012	"	"	"	"	0.32	41048
.....	4.14	0.106	0.020	"	"	"	"	0.26	41049
.....	4.06	0.106	0.028	"	"	"	"	0.16	41050
.....	4.13	0.104	0.014	"	"	"	"	0.16	41051
.....	5.88	0.140	0.028	"	"	"	"	1.00	41052

J. J. COSTIGAN, INSPECTOR.

White Wine Vinegar..	4.46	0.112	0.016	Alkaline..	None.....	Trace	None.....	0.53	40739
Cider Vinegar.	4.80	2.654	0.280	"	"	"	"	0.26	40740
.....	4.90	0.186	0.020	"	Trace....	"	"	0.11	40741
.....	4.63	0.144	0.014	"	"	Slight trace.	"	0.11	40742
.....	5.04	0.746	0.030	"	Slight trace.	Trace....	"	0.11	40743
.....	5.18	0.174	0.012	"	None.....	"	"	0.11	40744
.....	6.62	0.068	0.038	"	"	"	"	0.32	40745
XXX.....	4.68	0.226	0.019	"	"	"	"	0.16	40746
.....	5.16	0.284	0.010	"	Trace....	"	"	0.58	40747
.....	6.60	0.146	0.048	"	"	"	"	0.26	40748

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF OTTAWA—

1910.							
Sept. 13	Vinegar...	43131	McCuaig Cheney & Co., Vankleek Hill.	1 qt...	10	Wilson Lyttle and Manufacturers Badgerow, Toronto	
" 13	"	43132	Cameron & Downing, Vankleek Hill.	1 "	10	CanadianVinegar Co., Montreal.	Mathewson's Sons, Montreal.
" 21	"	43133	P. J. Campbell, Renfrew.	1 "	10	Wilson Lyttle and Manufacturers Badgerow, Toronto	
" 21	"	43134	Stewart Bros. & Co., Renfrew.	1 "	10	CanadianVinegar Co., Montreal.	Mathewson's Sons, Montreal.
" 26	"	43135	L. Frair, Somerset st., Ottawa.	1 "	10	Unknown	H. B. Borbridge, Agent through F. J. Castle Co.
" 26	"	43136	A. P. Johnson, Bronson Ave., Ottawa.	1 "	20	"	H. N. Bate & Sons, Ltd., Ottawa.
" 26	"	43137	T. Bowman, Somerset St., Ottawa.	1 "	10	"	F. J. Castle Co., Ltd., Ottawa.
" 26	"	43138	N. S. Schwerdfager, Ottawa.	1 "	13	Wilson Lyttle and Manufacturers Badgerow, Toronto	
" 27	"	43139	Lapensee & Lafleur, Albert St., Ottawa.	1 "	10	Unknown	H. N. Bate, Sons, Ltd., Ottawa.
" 27	"	43140	W. Farmer, Wellington St., Ottawa.	1 "	7	"	"

DISTRICT OF KINGSTON—

Oct. 5	Vinegar...	46554	D. B. Murray, Kingston.	1 qt...	15	Vendor.	
" 5	"	46555	S. T. Kirk, Kingston.	1 "	10	D. B. Murray, Kingston.	
" 5	"	46556	J. Crawford, Kingston	1 "	10	"	
" 7	"	46557	B. E. Hopkinson, Kingston.	1 "	10		Fewick and Hendry Co., Kingston.
" 7	"	46558	Geo. Gibson, Kingston	1 "	10	D. B. Murray, Kingston.	
" 7	"	46559	H. M. Stover, Kingston	1 "	10		A. Maclean, Kingston.
" 7	"	46560	W. J. Arniel, Alfard St., Kingston.	1 "	10	D. B. Murray, Kingston.	
" 7	"	46561	W. H. Medley, Kingston.	1 "	10	"	
" 7	"	46562	N. J. Nesbitt, Kingston.	1 "	10	"	
" 7	"	46563	C. H. Pickering, Kingston.	1 "	10		Geo. Robertson, Kingston.

DISTRICT OF TORONTO—

Sept. 10	Vinegar...	45149	Thos. B. Franklin, 643 Queen St., Toronto..	1 qt...	25	Unknown	
" 9	"	45150	The Queen City Vinegar Co. Ltd., 19 River St., Toronto..	1 "	10	Vendors	
" 9	"	45151	The Wilson Lytle Badgerow Co. Ltd., Front St., West Toronto...	1 "	10	"	

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VINEGAR.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.								No. of Sample.
	Acetic Acid, $C_2H_4O_2$	Solids in 100 cc.	Ash in 100 cc.	Reaction of Ash.	Chlorides.	Sulphates.	Reaction with Sulphuretted Hydrogen.	Alcohol by weight.	
J. A. RICKEY, INSPECTOR.									
White Wine Vinegar..									43131
Clarified Proof Vinegar	4.70	0.180	0.020	Alkaline..	Trace	Trace....	Slight darkening	0.79	43132
XXX White Wine Vinegar.									43133
									43134
Cider Vinegar.....									43135
Malt Vinegar									43136
									43137
									43138
	4.01	0.442	0.024	Alkaline..	Trace	None.....	None.....	0.16	43139
	3.96	0.346	0.026	"	"	"	"	0.11	43140

JAS. HOGAN, INSPECTOR.

									46554
									46555
									46556
									46557
									46558
									46559
									46560
									46561
									46562
									46563

H. J. DAGAR, INSPECTOR.

Labelled Franklin's Imported English Malt Vinegar.....									45149
XX Vinegar.....	3.89	0.094	0.008	Alkaline.	None.....	None.....	None....	0.05	45150
Malt Vinegar.....	4.08	2.388	0.178	"	Trace.....	Distinct traces.	"	0.11	45151

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF TORONTO—

1910.							
Sept. 19	Vinegar...	45152	Dominion Vinegar Co., 1 qt .. Hamilton.	10	Vendors.		
" 19	" ..	45153	The Imperial Vinegar 1 " .. & Pickling Co. Ltd. Hamilton	10	" ..		
" 21	" ..	45154	W. J. O'Brien, 94 Jas. 1 " .. St., North Toronto..	25	.....	Imported from Eng- land.....	
" 22	" ..	45155	W. McKim. Orange- 1 " .. ville.....	10	Standard Vinegar Co. Ltd., Stouffville....		
" 22	" ..	45156	Taylor Pringle Co. Ltd. 1 " .. Owen Sound.....	10	Vendors		
" 26	" ..	45157	J. M. Cook, 459 College 1 " .. St. Toronto.....	10	The Queen, City Vine- gar Co. Ltd, Toronto		
" 26	" ..	45158	W. B. Pringle, Whitby 1 " ..	10	The Whitby Fruit & Vinegar Co., Whitby		

DISTRICT OF LONDON—

Sept. 24	Vinegar...	44623	Jackson & Son, Guelph 1 1/2 pts.	10	Wilson & Little, Tor- onto.....		
" 30	" ..	44659	James Cutt, Blythe... 1 pt..	10	.....	Elliott Mar & Co., London.....	
Oct. 7	" ..	44656	Geo. Nairn, Windsor.. 1 "	10	The Bell Vinegar Co., Belleville		
" 12	" ..	44660	McCormick & Son, 1/2 " .. London.....	10	Imperial Vinegar Co., Hamilton		
" 12	" ..	44664	Mr. Fleming..... 1/2 "	10	Wilson, Little & Co., Toronto.....		

DISTRICT OF WINDSOR—

Sept. 13	Vinegar...	42432	R. J. Wood, London, 3 bots.	15	Belleville Vinegar Co., Belleville.		
" 13	" ..	42433	Cullis & Fleming, Lon- 5 " .. don, Ont.	10	Belleville Fruit & Vinegar Co., Belle- ville.		
" 13	" ..	42434	Pruney Bros., London, 3 " .. Ont.	10	Wilson, Lyttle & Bad- gerow, Toronto.		
" 13	" ..	42435	Pruney Bros., London, 3 " .. Ont.	10	R. Garner, London...		
" 13	" ..	42436	E. S. English, London, 3 " .. Ont.	10	S. Allin, Norwich....		
" 13	" ..	42437	E. & O. Boug, London, 3 " .. Ont.	8	L. M. Vandernade, London.		
" 14	" ..	42440	R. Garner, London, 3 " .. Ont.	nil.	Vendor		
" 14	" ..	42441	L. M. Vandernade, 3 " .. London, Ont.	"	" ..		

VINEGAR.

H. J. DAGAR, INSPECTOR—Continued.

T. KIDD, INSPECTOR.

JNO. TALBOT, INSPECTOR.

[illegible]

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF MANITOBA—

1910							
Nov. 15	Vinegar..	45845	Mrs. J. R. Wallace, 1 qt.. Winnipeg.	10		The Blackwood, Ltd., Winnipeg.	Unknown.
" 15	"	45846	A. Ingram, Winnipeg. 1 " .	10		"	"
" 15	"	45847	M. Feinstein, 737 Stella 1 " . .	5		"	Manufacturers.
" 15	"	45848	Wachnaw, 663 Stella 1 " . .	10		Unknown	Weidman Bros., Winnipeg.
" 15	"	45849	S. Ginsberg, 664 Stella 1 " . .	10		The Dyson Co., Win- nipeg.	Unknown.
" 16	"	45850	J. Tobht, Winnipeg. . . 1 " . .	10		The White Star Manu- facturing Co., Win- nipeg.	A. Macdonald & Co., Winnipeg.
" 16	"	45851	P. Nelson, Winnipeg. . 1 " . .	5		The Blackwood. Ltd., Winnipeg.	Unknown.
" 16	"	45852	S. J. Deroche, Winni 1 " . .	10		The White Star Manu- facturing Co., Win- nipeg.	"
" 16	"	45853	The Dyson Co., Winni- 1 " . .	nil.		Vendors.	Manufacturers
" 16	"	45854	The Dyson Co., Winni- 1 " . .	"		"	"

DISTRICT OF CALGARY

Sept. 23	Vinegar..	43944	R. V. Shaw & Co., 1 qt.. East Calgary.	20		Georgeson Co., Ltd., Calgary.	
" 23	"	43945	Jenkins & Comfort, 1 " . .	20		"	"
" 23	"	43946	R. J. Frizzle, East 1 " . .	20		Wilson Lyttle & Bad- gerow Co., Toronto.	
" 27	"	43947	Georgeson & Co., Ltd., 1 " . .	20		Vendors	
" 27	"	43948	L. T. Mewburn & Co., 1 " . .	20		Wilson, Lyttle & Bad- gerow Co., Toronto.	
" 27	"	43949	G. F. & J. Galt, Ltd., 1 " . .	20		Vendors	
" 27	"	43950	Campbell, Wilson & 1 " . .	20		Wilson, Lyttle & Bad- gerow Co., Toronto.	
" 28	"	43951	S. G. Freeze, Calgary. . 1 " . .	25		Annapolis Valley Vin- egar Mfg. Co., Bridgetown, N.S.	
" 28	"	43952	J. T. Macdonald, Cal- 1 " . .	40		Midland Vinegar Co., Birmingham, Eng.	
" 28	"	43953	Howson, McEwen Co., 1 " . .	25		Crosse & Blackwell, London, Eng.	

VINEGAR.

R. W. FLETCHER, INSPECTOR.[illegible]

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VANCOUVER—

1910.							
Oct. 12	Vinegar ..	38064	B.C. Distillery Co., Ltd., Vancouver.	1 qt.	25	Vendors.	
" 12	" ..	38065	N. R. Estabrooks, Vancouver.	1 "	15	W. J. Pendray, Victoria.	
" 13	" ..	38066	London Grocery Co., Vancouver.	1 "	25	Stephens, Gloucester.	
" 13	" ..	38067	Empress Mfg. Co., Vancouver.	1 "	25	Wilson Loatte, Toronto.	
" 13	" ..	38068	W. H. Walsh & Co., Vancouver.	1 "	25	G. F. Sutton & Sons, London, Eng.	
" 13	" ..	38069	A. Antipas, Vancouver	1 "	25	B.C. Distillery, Vancouver.	
" 13	" ..	38070	T. W. Cardinal, Kitsilano, Vancouver.	1 "	25	Crosse & Blackwell, London, Eng.	
" 13	" ..	38071	Fraser & McLeod, Kitsilano, Vancouver.	1 "	15		Hudson's Bay Co., Vancouver.
" 13	" ..	38072	Gurchy & Carlad, Fairview, Vancouver.	1 "	15		W. H. Malkin & Co., Vancouver.
" 13	" ..	38073	David Spencer, Ltd., Vancouver.	1 "	15	Wilson's	W. K. Houston & Co., Victoria.

DISTRICT OF VICTORIA--

Oct. 12	Vinegar ..	44955	Windsor Grocery Co., Victoria, B.C.	1 qt.	25	Grimble & Co., Ltd., London, Eng.	
" 12	" ..	44956	The West End Grocery Co., Ltd., Victoria, B.C.	1 "	20	Purnell, Bristol, Eng.	
" 12	" ..	44957	Saunders Grocery Co., Ltd., Victoria, B.C.	1 "	20	Rowat & Co., Glasgow and Liverpool.	
" 12	" ..	44958	Copas & Young, Victoria, B.C.	1 "	25	Crosse & Blackwell, London, Eng.	
" 13	" ..	44959	H. O. Kirkham, Victoria, B.C.	1 "	25	R. G. Wilcocks, Los Angeles, Cal.	
" 17	" ..	44960	E. G. Bailey, Victoria, B.C.	1 "	20	Empress Mfg Co., Vancouver, B.C.	
" 17	" ..	44961	F. E. Plummer, Victoria, B.C.	1 "	15	B. C. Vinegar Works, Vancouver, B.C.	
" 17	" ..	44962	Erskine & Co, Victoria, B.C.	1 "	25	E. Lazenby & Son, Ltd., London, Eng.	
" 17	" ..	44963	Harrison & McDonald, Victoria, B.C.	1 "	25	W. K. Houston & Co., Victoria.	
" 18	" ..	44964	L. Dickinson, Victoria, B.C.	1 "	20	White Cottells, Camberwell, London, Eng.	

APPENDIX S.

BULLETIN No. 224—TOMATO CATSUP.

OTTAWA, May 30, 1911.

W. J. GERALD, Esq.
Deputy Minister of Inland Revenue.

SIR,—In June and July of last year a collection of Tomato Catsup was made, ten samples being obtained in each of the fifteen inspectoral districts.

The samples in question were all examined by my assistants and reported to me; but the records were believed to have been destroyed in the fire of 4th January last; which also destroyed the samples themselves.

The recovery of part of the reports on these samples of catsup makes it possible to hand you this fragmentary record: which possesses certain features of interest that may justify its publication.

In the cases of the following districts, the analytical records are totally lost, viz:—

	Samples.
Nova Scotia	10
Prince Edward Island.....	10
New Brunswick.....	8
Kingston.....	10
London.....	11
Manitoba.....	6
Vancouver.....	10
Victoria	10
Total lost	75

The present report, therefore, includes as follows:—

	Samples.
District of Quebec.....	10
" St. Hyacinthe.....	10
" Montreal	10
" Ottawa.....	10
" Toronto	10
" Windsor	10
" Manitoba.....	5
" Calgary.....	10
Total	75

Catsup is rather to be regarded as a condiment, i.e., a seasoning for food than as a food proper; for which reason a consideration of the total nutriment derivable from the article would be out of place. The value of a catsup is to be judged rather by its palatability, and its effectiveness as a stimulant to appetite, than by its nutritive quality.

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If however tomato catsup derive, in any degree, its value from the actual amount of fruit spices and other solid matters used in its production, there is room for astonishment at the great variability in dry solids found in the 75 samples now reported. The total solid matter varies from less than 5 per cent (No. 1349) to above 30 per cent. (Nos. 45089 and 43782) of the weight of the article. The mineral solids (chiefly salt) vary from 0.68 per cent to 3.82 per cent.

Bulletin No. 129 (Dec. 1906) contains a report upon 49 samples of tomato catsup, and in these a variation of from 7.44 p.c. to 29.04 p.c., was noted in total solids; while the mineral matter (ash) varied from 1.60 to 7.66 per cent. It is worthy of note that the highest ash is not found in those samples which give highest total solid matter.

Under the regulations made in conformity with the Pure Food Law of the United States, catsup is defined as 'The clean, sound product, made from the properly prepared pulp of clean, sound, fresh, ripe tomatoes, with spices, and with or without sugar and vinegar.'

This definition is very incomplete, inasmuch as it contains nothing quantitative. It would seem reasonable to insist upon a certain minimum amount of fruit, and perhaps of spices, in catsup. The definition quoted possesses, however, one important and valuable feature, in that it insists upon the pulp being clean and sound, and prepared from clean, sound, fresh and ripe fruit. Many convictions have been obtained against manufacturers whose catsup has been found mouldy, rotten or swarming with bacteria. (See notices of judgment 156, 388, &c.). But even here there is a difficulty, since an absolutely sterile catsup is practically impossible. It would seem well to fix upon a bacterial limit, beyond which the article would be illegal. Section 3 (e) of our Adulteration Act is quite as precise as the definition above quoted.

All of the 75 samples reported were found to be in good condition, and free from moulds or decay.

Three (3) samples contained salicylic acid as a preservative; forty-six (46) contained benzoic acid, and six (6) contained sulphurous acid or sulphites. These last were, of course, artificially coloured.

Coal tar dyes were found in 54 cases. There is no greater objection to harmless colouring matter in catsup than in candy. But a suspicion naturally arises that the colour may be used to conceal inferiority in the article, since it is well known that the use of fresh and ripe tomatoes renders a dye unnecessary; and in fact, some of the most attractively coloured samples herein reported were found to be free from dyes.

The question of fixing a standard for tomato catsup must receive consideration in due course; and a collection to supplement that herein reported, will be made as soon as work in hand permits.

This report is belated, for reasons already given. The work contained in it belongs to the fiscal year ending March 31, 1911.

I beg to recommend its publication as Bulletin 224.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,
Chief Analyst.

BULLETIN No. 224--TOMATO CATSUP.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cents.	Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.							No. of Sample.
							Total Solids.	Total Ash.	Acidity stated as Acetic Acid.	Coal Tar Dyes.	Preservatives.			
											Salicylic Acid.	Benzoic Acid.	Sulphurous Acid.	
DISTRICT OF QUEBEC. E. BELAND, INSPECTOR.														
1910.							p.c.	p.c.	p.c.					
June 23	Tomato Catsup.	36423	Alexandre Marcoux, Beauport.	3 Bots	30	Quebec Preserving Co., Quebec.	10.04	2.88	1.05	Pre-sent.	None.	Pre-sent.	None.	36423
" 23	"	36424	Philias Parent, Beauport.	3 "	30	N. Turcotte & Cie, Quebec.	5.50	1.40	0.87	"	"	None.	"	36424
" 23	"	36425	" " " "	3 "	30	J. B. Renaud & Cie, Quebec.	11.44	1.70	0.74	"	"	Pre-sent.	"	36425
" 23	"	36426	" " " "	3 "	30	" " " "	17.32	1.56	0.93	"	"	None.	Pre-sent.	36426
" 23	"	36427	Alphonse Vachon, Beauport.	3 "	45	Unknown	13.44	2.03	0.99	"	"	"	None.	36427
" 23	"	36428	" " " "	3 "	60	" " " "	18.30	2.30	0.93	"	"	Pre-sent.	"	36428
" 23	"	36429	Joseph Godreau, Beauport.	3 "	30	Quebec Preserving, Quebec.	8.88	1.34	1.30	"	"	None.	"	36429
" 23	"	36430	Jule Belanger, Beauport.	3 "	30	N. Rioux & Cie, Quebec.	14.24	2.00	0.74	"	"	Pre-sent.	"	36430
" 23	"	36431	Elie Noel, Beauport.	3 "	45	J. B. Renaud & Cie, Quebec.	15.40	1.70	0.99	"	"	None.	"	36431
" 23	"	36432	Narcisse Fortier, Beauport.	3 "	30	N. Rioux & Cie, Quebec.	14.60	1.64	0.68	"	"	"	"	36432

DISTRICT OF ST. HYACINTHE J. C. ROULEAU, INSPECTOR.

June 23	Tomato Catsup.	1349	J. A. Perrault & Cie, Montreal.	3 bts.	45	J. A. Perrault & Cie, Montreal.	4.80	1.80	1.24	Pre-sent.	Pre-sent.	None.	None.
" 23	"	1350	H. R. Barlow, Magog.	3 "	35	The Aylmer Canning Co., Aylmer, Ont.	12.54	1.74	0.99	"	None.	Pre-sent.	"

SESSIONAL PAPER No. 14

"	24	"	"	1351	Ed. Lacroix, Coati- cook.	3	"	60	Grantham Canning Co., St. Catharines.	20.46	3.14	1.12	"	None.	"	1351
"	27	"	"	1352	J. V. Pagnan, Sorel.	3	"	45	Griffith Catsup Co., Dunn- ville.	8.60	1.70	0.99	"	Pre- sent.	"	1352
"	28	"	"	1353	E. Nouri, St. Gre- goire de Nicolet.	3	"	39	The Ozo Co., Ltd., Mon- treal.	14.16	2.46	1.49	None.	None.	"	1353
"	29	"	"	1354	Oct. Petit, Vic- torville.	3	"	30	Jos. Lamoureux & Cie, Montreal.	7.26	1.92	1.11	Pre- sent.	"	"	1354
"	30	"	"	1355	J. A. Rousseau, Plessisville.	3	"	30	The Ozo Co., Ltd., Mon- treal.	15.66	3.20	0.68	"	None.	Pre- sent.	1355
July	11	"	"	1356	J. V. Lavoie, Thetford Mines West.	3	"	30	Quebec Preserving Co., Quebec.	8.88	1.90	0.62	"	"	"	1356
"	12	"	"	1357	E. M. Jacques, Garthby.	3	"	50	Sugars & Cannerys Ltd., Montreal.	19.54	1.44	1.24	"	"	"	1357
"	19	"	"	1358	J. S. Richard, St. 3 Denis River, Rich.	3	"	30	H. Bourque & Fils, Mon- treal.	14.64	1.34	1.36	None.	None.	"	1358

DISTRICT OF MONTREAL J. L. COSTIGAN, INSPECTOR.

June	17	Tomato Catsup.	39947	A. Rochon, Prince Arthur E., Montreal.	45	3	Bots	30	H. Bourque & Fils, Mon- treal.	13.52	1.46	1.36	None.	None.	"	39947
"	17	"	39948	T. Gougeon, 368 Dorchester W., Montreal.	368	3	"	30	" "Canada first" Brand.	13.40	3.00	1.05	Pre- sent.	"	"	39948
"	18	"	39949	W. Bandfont & Sons, Lachine, P.Q.	3	3	"	45	" "Empress" Brand.	10.58	1.90	1.30	"	"	"	39949
"	20	"	39950	D. Hetu, St. Agathe de Mouts.	3	3	"	35	" "Puritan" Brand.	11.28	1.42	0.80	"	"	"	39950
"	21	"	39951	L. V. Giraldeau, Rigaud, P.Q.	3	3	"	45	" "Signal" Brand.	20.80	3.40	1.30	"	"	"	39951
"	21	"	39952	Chevrier et frere, Rigaud, P.Q.	3	3	"	45	W. Lorain, Bord a Plouffe, P.Q.	10.14	3.82	1.05	"	Pre- sent.	"	39952
July	5	"	39953	E. P. Dame, 312 Bleury St., Mon- treal.	312	3	"	45	Griffith Catsup Co., Dunn- ville, Ont.	15.14	3.50	1.74	"	"	"	39953
"	5	"	39954	E. Peras, St. Lam- bert, P.Q.	3	3	"	30	" "Oval Brand"	17.28	2.50	0.99	"	"	"	39954
"	5	"	39955	" " "	3	3	"	15	" "Sussex Brand"	14.48	1.34	1.18	None.	None.	"	39955
"	5	"	39956	M. Viger, Lon- gueuil.	3	3	"	75	T. A. Snider Preserve Co., Cincinnati, Ohio	19.20	1.90	0.99	"	Pre- sent.	"	39956

BULLETIN No. 221—TOMATO CATSUP.

RESULTS OF ANALYSIS.															
Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cost.	Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)	Total Solids.	Total Ash.	Acidity stated as Acetic Acid.	Coal Tar Dyes.	Preservatives.			No. of Sample.
												Salicylic Acid.	Benzoic Acid.	Sulphurous Acid.	
DISTRICT OF OTTAWA—J. A. RICKY—INSPECTOR.															
1910.								p.c.	p.c.	p.c.					
June 15	Tomato Catsup.	43046	D. A. Youngblood, Elgin St., Ottawa.	3 Bots.	30	Canada Preserving Co., Ltd., Hamilton.	"Graham's Lily" Brand.	20.14	2.28	1.48	Pre-sent.	None.	Pre-sent.	None.	43046
" 20	"	43047	J. E. Burrows, O'Connor St., Ottawa.	3 "	50	H. N. Bate & Sons, Ottawa.	Mfg. by T. A. Lytle Co., Ltd., Toronto.	13.04	2.00	1.24	"	"	None.	Pre-sent.	43047
" 20	"	43048	S. W. Lee, Elgin St., Ottawa.	3 "	75	"	Snider's Home-made catsup mfd. by T. A. Snider Co., Cincinnati, Ohio, not artificially colored.	20.04	3.20	1.12	None.	"	"	None.	43048
" 20	"	43049	E. W. Richardson, Elgin St., Ottawa.	3 "	30	The Turner Co., Ltd., Toronto.	"Turner" Brand.	19.78	1.84	0.62	Pre-sent.	"	Pre-sent.	"	43049
" 21	"	43050	Alex. Phillips, Somerset St., Ottawa.	3 "	30	The T. A. Lytle Co., Ltd., Toronto.	"Canada Brand"	18.36	1.80	0.81	"	"	None.	Pre-sent.	43050
" 22	"	43051	Leacy & Shields, Pembroke.	3 "	35	H. N. Bate & Sons, Ottawa.	"Graham's Lily" Brand mfd. by Canada Preserving Co., Hamilton.	18.70	1.00	1.73	None.	"	Pre-sent.	None.	43051
" 22	"	43052	Fenton & Smith, Pembroke.	3 "	75	Gorman, Eckert & Co., London, Ont.	"Forest City" Brand Home-made Catsup.	16.70	3.26	1.05	Pre-sent.	"	"	"	43052

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SESSIONAL PAPER No. 14

"	28	"	43053	Mullin Bros., Morrisburg.	3	"	45	Wm. Galbraith & Son, Montreal.	Mfd. by T. A. Lytle Co., Ltd., Toronto.	13.94	1.80	0.80	"	"	Pre-sent.	43053
July 14	4	"	43054	Jno. Whitley, Prescott.	3	"	45	Unknown	"Hilcrest" Brand.	11.72	2.24	1.86	"	"	None.	43054
"	11	"	43055	Wm. Rhodes, Brockville.	3	"	30	Gilmour & Co., Brockville.	"Canada First" prepared by Aylmer Canning Co., Aylmer, Ont.	13.00	2.20	0.87	"	"	"	43055

DISTRICT OF TORONTO—H. J. DAGER—INSPECTOR.

June 16	16	Tomato Catsup.	45087	A. Harris & Co., Uxbridge.	3	Bots	30	The Aylmer Canning Co., Aylmer, Ont.	"Canada first".	12.52	2.20	0.99	Pre-sent.	None.	Pre-sent.	45087
"	18	"	45088	Geo. O. Elder, Mary St. Hamilton.	3	"	30	Burlington Canning Co., Burlington.	"Burlington" Brand.	18.18	1.80	0.79	None.	"	"	45088
"	21	"	45089	James Kennedy, Arthur St., Toronto.	3	"	45	H. J. Heinz Co., Pittsburgh, Pa.	Heinz Tomato Catsup contains no artificial preservative or coloring.	32.20	2.24	1.79	"	"	None.	45089
"	23	"	45090	John Cheesman, Barrie.	3	"	30	Jno. Sloan & Co., Toronto.	"Delfance" Brand.	12.46	1.66	1.05	Pre-sent.	"	Pre-sent.	45090
"	29	"	45091	Ward & Co., Gerald St. E., Toronto.	3	Cans	30	Ingersoll Canning & Preserving Co., Ingersoll.	"Dundee" Brand.	5.30	0.76	0.79	None.	"	"	45091
"	29	"	45092	R. J. Poyntz, Dundas St. W., Toronto.	3	Bots	45	Green & Co., Toronto.	National Brand.	5.84	1.86	2.23	"	"	"	45092
"	30	"	45093	C. H. Crysdale, Oshawa.	3	"	30	Napanee Canning Co., Ltd., Napanee.	"Canadas Pride".	16.02	1.08	0.68	Pre-sent.	"	"	45093
July 4	4	"	45095	Thomas Haywood, Orillia.	3	"	30	The Meaford Canning Co., Meaford, Ont.	"Vernon" Brand.	6.32	1.90	0.86	"	"	"	45095
"	5	"	45096	Thos. Fielding, Gravenhurst.	3	"	45	The T. A. Lytle Co., Ltd., Toronto.	"Canada" Brand.	17.40	1.72	1.18	"	"	Pre-sent.	45096
"	5	"	45097	J. D. Cummings, Bracebridge.	3	"	45	The North Land Mfg. Co., Toronto.	Home-made choice tomato catsup.	16.44	1.44	1.18	"	"	None.	45097

DISTRICT OF WINDSOR—JNO. TALBOT, INSPECTOR.

June 20	20	Tomato Catsup.	42322	A. H. Scarff & Co., Essex.	3	Bots	35	Wm. Davies & Co., Toronto.	Davies Tomato Catsup.	16.34	2.28	1.98	Pre-sent.	None.	None.	42322
"	20	"	42323	Thos. A. Kennedy, Essex.	3	"	45	T. A. Lytle Co., Toronto.	"Canada" Brand.	19.16	2.28	0.99	"	"	Pre-sent.	42323

SESSIONAL PAPER No. 14

"	23	"	43502	Collins & Munro, 3 pkgs Miami.	45	The Meaford Canning Co., Meaford, Ont.	Vernon Tomato Catsup.	.....	.....	.....	43502
"	27	"	43503	G. T. Hoyes, Elm-3 bots. wood.	45	The Dyson Co., Winnipeg.	Dyson Red Cross Brand.	.....	.....	.....	43503
"	27	"	43504	J. H. McGrath, 3 " " Elmwood.	45	T. A. Lytle, Ltd., Toronto	Sterling Brand	.....	.....	.....	43504
"	28	"	43505	J. Paterson, Port-3 " " age Ave., Win- nipeg.	75	T. A. Snider Preserve Co., Cincinnati, Ohio.	.....	.....	.....	.....	43505
"	29	"	43506	Pasekov & Zearoin, 3 " " Weston.	45	Blackwood, Ltd, Winnipeg	.....	.....	.....	.....	43506
July	6	"	43507	Gregory & Co., St. 3 " " James.	45	The Tillbury Canning Co., Ltd., Tillbury, Ont.	.....	14 36	2 40	0 93 Pre- sent.	43507
"	7	"	43508	A. Biggins, Elgin, 3 " " Man.	75	The Dyson Co., Winnipeg.	Red Cross Tom- ato Catsup.	12 14	3 34	1 24 " "	43508
"	8	"	43509	Ross & Cunning-3 " " ham, Elgin, Man.	75	Delhi Canning Co., Delhi, Ont.	Epicure Brand..	19 36	2 12	0 72 None.	43509
"	11	"	43510	W. A. Wales, 3 " " Nena St., Win- nipeg.	75	Van Camp Packing Co., Indianapolis, U.S.	.....	26 00	3 60	1 92 " "	43510

DISTRICT OF CALGARY—R. W. FLETCHER—INSPECTOR.

July	5	Tomato Catsup..	43781	Craddock & Viner, 3 Tins Lethbridge.	40	Delhi Fruit & Vegetable Canning Co., Delhi, Ont.	.....	21 66	2 00	0 83 None.	None.	43781
"	5	"	43782	Hudson Bay Co., 3 Bots Lethbridge.	1 00	— Heinz, Pittsburg. Pa.	.....	30 70	2 60	1 86 " "	"	43782
"	13	"	43783	R. Dunn, Medicine 3 " " Hat.	60	Gorman, Eckert & Co., Ltd., London, Ont.	.....	15 70	1 90	1 55 Pre- sent.	"	43783
"	13	"	43784	The D. Milne Co., 3 " " Ltd., Medicine	1 00	Curtice Bros., Rochester, N.Y.	.....	18 26	3 56	0 87 None.	"	43784
"	22	"	43785	W. H. Hayes, Cal-3 " " gary.	75	Aylmer Canning Co., Ayl- mer, Ont.	.....	16 26	3 00	1 12 Pre- sent.	"	43785
"	22	"	43786	E. A. Rosser, Cal-3 Tins gary.	40	" "	.....	8 78	2 68	1 55 " "	"	43786
Aug.	8	"	43787	C. E. Compton, 3 Bots Wetaskiwin..	90	T. A. Snider Co., Cincin- nati, Ohio.	.....	21 90	2 28	1 18 None.	None.	43787
"	8	"	43788	Thibaudeau Trad-3 " " ing Co., Wetaski- win.	1 05	Van Camp Packing Co., Indianapolis, Ind.	.....	26 06	3 66	1 80 " "	Pre- sent.	43788
Aug.	9	"	43789	Douglas Bros., 3 Bots Ltd., Strathcona.	45	Gorman, Eckert & Co., London, Ont.	.....	15 22	2 52	0 99 Pre- sent.	"	43789
"	10	"	43790	A. Livingston, 3 " " Edmonton.	75	Van Camp Packing Co., Indianapolis, Ind.	.....	26 10	3 10	1 92 None.	"	43790

